

technical data

RR-B8V3B_RR-B8W1B

Pair, Twin, Triple Application

air conditioning systems

Split Sky Air

R-410A

Split - Sky Air

In all of us,
a green heart



Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues. For several years Daikin has had the intention to become a leader in the provision of products that have limited impact on the environment. This challenge demands the eco design and development of a wide range of products and an energy management system, resulting in energy conservation and a reduction of waste.



ISO14001 assures an effective environmental management system in order to help protect human health and the environment from potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment.



Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.



Daikin units comply with the European regulations that guarantee the safety of the product.



Daikin Europe N.V. participates in the Eurovent Certification Programme for Air Conditioners (AC), Liquid Chilling Packages (LCP) and Fan Coil units (FC); the certified data of certified models are listed in the Eurovent Directory.

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EEEDEN07

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1 Features

- Outdoor units for pair, twin, triple, double twin application
- Daikin outdoor units are neat and sturdy and can be mounted easily on a roof or terrace or simply placed against an outside wall.
- Outdoor units are fitted with a scroll compressor, renowned for low noise and high energy efficiency.
- The piping connections can be accessed from underneath, front, side or rear.
- The service valves are hidden inside the casing.
- A special acryl precoated fin for anti-corrosion treatment on the heat exchanger ensures greater resistance against severe weather conditions



2 Specifications

| 2-1 NOMINAL CAPACITY AND NOMINAL INPUT | | | | RR71B8V3B | RR71B8W1B | RR100B8V3B | RR100B8W1B | RR125B8W1B |
|--|---------------------------|----------|-----|------------|------------|-------------|-------------|-------------|
| For combination indoor units + outdoor units | Indoor Units | | | FCQ71C7VEB | FCQ71C7VEB | FCQ100C7VEB | FCQ100C7VEB | FCQ125C7VEB |
| Nominal Capacity | Cooling | Standard | kW | 7.1 | 7.1 | 10 | 10 | 12.5 |
| Nominal input | Cooling | Standard | kW | 2.72 | 2.66 | 3.83 | 3.56 | 4.66 |
| For combination indoor units + outdoor units | EER | Cooling | | 2.61 | 2.67 | 2.61 | 2.81 | 2.68 |
| | Energy Labeling Directive | Cooling | | D | D | D | C | D |
| | Annual energy consumption | | kWh | 1360 | 1330 | 1915 | 1780 | 2330 |
| | Indoor Units | | | FBQ71B8V3B | FBQ71B8V3B | FBQ100B8V3B | FBQ100B8V3B | FBQ125B8V3B |
| Nominal Capacity | Cooling | Standard | kW | 7.1 | 7.1 | 10 | 10 | 12.2 |
| Nominal input | Cooling | Standard | kW | 2.79 | 2.68 | 3.79 | 3.6 | 4.67 |
| For combination indoor units + outdoor units | EER | Cooling | | 2.54 | 2.65 | 2.64 | 2.78 | 2.61 |
| | Energy Labeling Directive | Cooling | | E | D | D | D | D |
| | Annual energy consumption | | kWh | 1395 | 1340 | 1895 | 1800 | 2335 |
| | Indoor Units | | | FHQ71BVV1B | FHQ71BVV1B | FHQ100BVV1B | FHQ100BVV1B | FHQ125BVV1B |
| Nominal Capacity | Cooling | Standard | kW | 7.1 | 7.1 | 9.8 | 9.8 | 12.2 |
| Nominal input | Cooling | Standard | kW | 2.7 | 2.65 | 3.75 | 3.68 | 4.51 |
| For combination indoor units + outdoor units | EER | Cooling | | 2.63 | 2.68 | 2.61 | 2.66 | 2.71 |
| | Energy Labeling Directive | Cooling | | D | | | | |
| | Annual energy consumption | | kWh | 1350 | 1325 | 1875 | 1840 | 2255 |
| | Indoor Units | | | FAQ71BVV1B | FAQ71BVV1B | FAQ100BVV1B | FAQ100BVV1B | FUQ125BVV1B |
| Nominal Capacity | Cooling | Standard | kW | 7.1 | 7.1 | 10 | 10 | 12.2 |
| Nominal input | Cooling | Standard | kW | 2.65 | 2.53 | 3.56 | 3.52 | 4.57 |
| For combination indoor units + outdoor units | EER | Cooling | | 2.68 | 2.81 | 2.81 | 2.84 | 2.67 |
| | Energy Labeling Directive | Cooling | | D | C | C | C | D |
| | Annual energy consumption | | kWh | 1325 | 1265 | 1780 | 1760 | 2285 |
| | Indoor Units | | | FUQ71BVV1B | FUQ71BVV1B | FUQ100BVV1B | FUQ100BVV1B | FDQ125B8V3B |
| Nominal Capacity | Cooling | Standard | kW | 7.1 | 7.1 | 10 | 10 | 12.5 |
| Nominal input | Cooling | Standard | kW | 2.7 | 2.65 | 3.83 | 3.78 | 4.79 |
| For combination indoor units + outdoor units | EER | Cooling | | 2.63 | 2.68 | 2.61 | 2.65 | 2.61 |
| | Energy Labeling Directive | Cooling | | D | | | | |
| | Annual energy consumption | | kWh | 1350 | 1325 | 1915 | 1890 | 2395 |

| 2-2 TECHNICAL SPECIFICATIONS | | | | RR71B8V3B | RR71B8W1B | RR100B8V3B | RR100B8W1B | RR125B8W1B |
|------------------------------|-------------|--------|----|--------------------------------|-----------|------------|------------|------------|
| Casing | Colour | | | Daikin White | | | | |
| | Material | | | Painted galvanized steel plate | | | | |
| Dimensions | Unit | Height | mm | 770 | 770 | 1170 | 1170 | 1170 |
| | | Width | mm | 900 | 900 | 900 | 900 | 900 |
| | | Depth | mm | 320 | 320 | 320 | 320 | 320 |
| | Packing | Height | mm | 900 | 900 | 1300 | 1300 | 1300 |
| | | Width | mm | 980 | 980 | 980 | 980 | 980 |
| | | Depth | mm | 420 | 420 | 420 | 420 | 420 |
| Weight | Unit | | kg | 83 | 81 | 102 | 99 | 106 |
| | Packed Unit | | kg | 87 | 85 | 107 | 104 | 111 |

2 Specifications

| 2-2 TECHNICAL SPECIFICATIONS | | | | RR71B8V3B | RR71B8W1B | RR100B8V3B | RR100B8W1B | RR125B8W1B |
|------------------------------|---------------------------------|-------------------------------|--------|---------------------------------------|-----------|---------------|------------|------------|
| Heat Exchanger | Dimensions | Length | mm | 857 | 857 | 857 | 857 | 857 |
| | | Nr of Rows | | 2 | 2 | 2 | 2 | 2 |
| | | Fin Pitch | mm | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 |
| | | Nr of Passes | | 6 | 6 | 10 | 10 | 10 |
| | | Face Area | m² | 0.641 | 0.641 | 0.980 | 0.980 | 0.980 |
| | | Nr of Stages | | 34 | 34 | 52 | 52 | 52 |
| | Tube type | | | Hi-XSS cooling tube | | | | |
| | Fin | Type | | Non-symmetric waffle louvre | | | | |
| Treatment | | Anti-corrosion treatment (PE) | | | | | | |
| Fan | Type | | | Direct Drive Propeller | | | | |
| | Discharge direction | | | Horizontal | | | | |
| | Quantity | | | 1 | 1 | 1 | 1 | 2 |
| | Air Flow Rate (nominal at 230V) | Cooling | m³/min | 48.0 | 48.0 | 55.0 | 55.0 | 89.0 |
| | Motor | Quantity | | 1 | 1 | 1 | 1 | 1 |
| | | Model | | P47L11S | | | | |
| | | Position | | | | | | Lower |
| Motor | Speed (nominal) | Steps | | 3 | 3 | 3 | 3 | 3 |
| Fan | Motor | Output | W | 65 | 65 | 65 | 65 | 85 |
| | | Position | | | | | | Upper |
| Motor | Speed (nominal) | Steps | | | | | | 3 |
| Fan | Motor | Output | W | | | | | 65 |
| Compressor | Quantity | | | 1 | 1 | 1 | 1 | 1 |
| | Motor | Model | | JT90G-P4V1N@S | JT90G-YE | JT125G-P4V1@S | JT125G-YE | JT160G-YE |
| | | Type | | Hermetically sealed scroll compressor | | | | |
| | | Motor Output | W | 2200 | 2200 | 3000 | 3000 | 3750 |
| | | Crankcase Heater | W | 33 | 33 | 33 | 33 | 33 |
| Operation Range | Cooling | Min | °CDB | -15.0 | -15.0 | -15.0 | -15.0 | -15.0 |
| | | Max | °CDB | 46.0 | 46.0 | 46.0 | 46.0 | 46.0 |
| Sound Level (nominal) | Cooling | Sound Power | dBA | 63.0 | 63.0 | 66.0 | 66.0 | 67.0 |
| | | Sound Pressure | dBA | 50.0 | 50.0 | 53.0 | 53.0 | 53.0 |
| Refrigerant | Type | | | R-410A | | | | |
| | Charge | | kg | 2.7 | 2.7 | 3.7 | 3.7 | 3.7 |
| | Control | | | Expansion valve (electronic type) | | | | |
| | Nr of Circuits | | | 1 | 1 | 1 | 1 | 1 |
| Refrigerant Oil | Type | | | Daphne FVC68D | | | | |
| | Charged Volume | | l | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |

2 Specifications

| 2-2 TECHNICAL SPECIFICATIONS | | | | RR71B8V3B | RR71B8W1B | RR100B8V3B | RR100B8W1B | RR125B8W1B |
|------------------------------|----------------------------------|---------------------------|---|---------------------------|-----------|------------|------------|------------|
| Piping connections | Liquid (OD) | Quantity | | 1 | 1 | 1 | 1 | 1 |
| | | Type | | Flare connection | | | | |
| | | Diameter (OD) | mm | 9.52 | 9.52 | 9.52 | 9.52 | 9.52 |
| | Gas | Quantity | | 1 | 1 | 1 | 1 | 1 |
| | | Type | | Flare connection | | | | |
| | | Diameter (OD) | mm | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 |
| | Drain | Quantity | | 3 | 3 | 3 | 3 | 3 |
| | | Type | | Hole | | | | |
| | | Diameter (OD) | mm | 26 | 26 | 26 | 26 | 26 |
| | Piping Length | Minimum | m | 5 | 5 | 5 | 5 | 5 |
| | | Maximum | m | 70 | 70 | 70 | 70 | 70 |
| | | Equivalent | m | 90 | 90 | 90 | 90 | 90 |
| | | Chargeless | m | 30 | 30 | 30 | 30 | 30 |
| | Installation height difference | Maximum | m | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 |
| | Max. internunit level difference | | m | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| | Heat Insulation | | | Both liquid and gas pipes | | | | |
| Defrost Method | | | Reversed cycle | | | | | |
| Defrost Control | | | Sensor for outdoor heat exchanger temperature | | | | | |
| Capacity Control Method | | | None | | | | | |
| Safety Devices | | | Reverse phase protector | | | | | |
| | | | PC board fuse | | | | | |
| | | | Overcurrent relay (compressor) | | | | | |
| | | | Low pressure switch | | | | | |
| | | | High pressure switch | | | | | |
| | | | Fan motor thermal protector | | | | | |
| Standard Accessories | Item | Declaration of conformity | | | | | | |
| | Quantity | | 1 | 1 | 1 | 1 | 1 | |
| | Item | Installation manual | | | | | | |
| | Quantity | | 1 | 1 | 1 | 1 | 1 | |
| Notes | | | Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to sound level drawings of this chapter. | | | | | |
| | | | The sound power level is an absolute value indicating the power which a sound source generates. | | | | | |
| | | | Sound values are measured in a semi-anechoic room. | | | | | |
| | | | Heating capacity is only applicable for combination with heat pump outdoor unit | | | | | |
| | | | In case of drain piping for outdoor unit, drain piping kit (option) is needed. | | | | | |
| | | | Nominal cooling capacities are based on : indoor temperature : 27°CDB, 19°CWB, outdoor temperature : 35°CDB, equivalent refrigerant piping : 7.5m, level difference : 0m. | | | | | |
| | | | Nominal heating capacities are based on : indoor temperature : 20°CDB, outdoor temperature : 7°CDB, 6°CWB, equivalent refrigerant piping : 7.5m, level difference : 0m | | | | | |

| 2-3 ELECTRICAL SPECIFICATIONS | | | | RR71B8V3B | RR71B8W1B | RR100B8V3B | RR100B8W1B | RR125B8W1B |
|-------------------------------|----------------------------|----------|----|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Power Supply | Name | | | V3 | W1 | V3 | W1 | W1 |
| | Phase | | | 1 | 3N | 1 | 3N | 3N |
| | Frequency | | Hz | 50 | 50 | 50 | 50 | 50 |
| | Voltage | | V | 230 | 400 | 230 | 400 | 400 |
| | Voltage range | Minimum | V | -10% | -10% | -10% | -10% | -10% |
| | | Maximum | V | +10% | +10% | +10% | +10% | +10% |
| Current | Recomended fuses | | A | 32 | 16 | 40 | 16 | 20 |
| Wiring connections | For Power Supply | Quantity | | 1 | 1 | 1 | 1 | 1 |
| | | Remark | | 3 wires (earth wire included) | 5 wires (earth wire included) | 3 wires (earth wire included) | 5 wires (earth wire included) | 5 wires (earth wire included) |
| | For connection with indoor | Quantity | | 1 | 1 | 1 | 1 | 1 |
| | | Remark | | 4 wires (earth wire included) | | | | |
| Power Supply Intake | | | | Outdoor unit only | | | | |

3 Electrical data

| Unit combination | | Power supply | | | | | Compressor | | OFM | | IFM | |
|------------------|--------------|--------------|----------------------------------|------|------|-----|------------|------|-------|-----|-------|-----|
| Indoor unit | Outdoor unit | Hz-Volts | Voltage range | MCA | TOCA | MFA | LRA | RLA | kW | FLA | kW | FLA |
| FCQ71B | RR71B8V3B | 50-230 | Max. 50Hz-253V Min. 50Hz-207V | 16.6 | 23.3 | 32 | 75.5 | 12.2 | 0.065 | 0.6 | 0.045 | 0.7 |
| FCQ71C | RR71B8V3B | 50-230 | | 16.4 | 23.1 | 32 | 75.5 | 12.2 | 0.065 | 0.6 | 0.065 | 0.5 |
| FUQ71 | RR71B8V3B | 50-230 | | 16.6 | 23.2 | 32 | 75.5 | 12.3 | 0.065 | 0.6 | 0.045 | 0.6 |
| FHQ71 | RR71B8V3B | 50-230 | | 16.8 | 23.2 | 32 | 75.5 | 12.5 | 0.065 | 0.6 | 0.062 | 0.6 |
| FAQ71 | RR71B8V3B | 50-230 | | 16.1 | 22.9 | 32 | 75.5 | 12.2 | 0.065 | 0.6 | 0.043 | 0.3 |
| FBQ71 | RR71B8V3B | 50-230 | | 17.4 | 23.5 | 32 | 75.5 | 12.7 | 0.065 | 0.6 | 0.125 | 0.9 |
| FCQ71B | RR71B8W1B | 50-400 | Max. 50Hz-440V Min. 50Hz-360V | 7.3 | 11.3 | 16 | 41.1 | 4.8 | 0.065 | 0.6 | 0.045 | 0.7 |
| FCQ71C | RR71B8W1B | 50-400 | | 7.1 | 11.1 | 16 | 41.1 | 4.8 | 0.065 | 0.6 | 0.065 | 0.5 |
| FUQ71 | RR71B8W1B | 50-400 | | 7.3 | 11.2 | 16 | 41.1 | 4.9 | 0.065 | 0.6 | 0.045 | 0.6 |
| FHQ71 | RR71B8W1B | 50-400 | | 7.5 | 11.2 | 16 | 41.1 | 5.0 | 0.065 | 0.6 | 0.062 | 0.6 |
| FAQ71 | RR71B8W1B | 50-400 | | 6.8 | 10.9 | 16 | 41.1 | 4.7 | 0.065 | 0.6 | 0.043 | 0.3 |
| FBQ71 | RR71B8W1B | 50-400 | | 8.1 | 11.5 | 16 | 41.1 | 5.3 | 0.065 | 0.6 | 0.125 | 0.9 |

3TW26379-9B

SYMBOLS

| | |
|------|-------------------------------|
| MCA | : Min. Circuit Amps |
| TOCA | : Total Over Current Amps |
| MFA | : Max. Fuse Amps (see note 7) |
| LRA | : Locked Rotor Amps |
| RLA | : Rated Load Amps |
| OFM | : Outdoor Fan Motor |
| IFM | : Indoor Fan Motor |
| FLA | : Full Load Amps |
| kW | : Rated motor output |

NOTES

1. RLA is based on the following conditions:
Indoor temp.: 27°CDB/19.5°CWB
Outdoor temp. : 35°CDB
2. TOCA means the total value of each OC set
3. Voltage range
Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed operation range limits
4. Maximum allowable voltage unbalance between phases is 2%.
5. MCA/MFA
 $MCA = 1.25 \times RLA + \text{all FLA}$, $MFA = < 2.25 \times RLA + \text{all FLA}$ (next lower standard fuse rating Min. 16A)
6. Select wire size based on the larger value of MCA or TOCA
7. Instead of fuse, use circuit breaker
8. For more details concerning conditional connections, see <http://www.daikineurope.com/extranet>, select "Daikin Documentation" and select "conditional connection", "the requested product type" and "English" from the drop down lists, click the search button.
Finally, click on the document title of your choice.

3 Electrical data

| Unit combination | | Power supply | | | | | Compressor | | OFM | | IFM | |
|------------------|--------------|--------------|----------------------------------|------|------|-----|------------|------|-------|-----|-------|-----|
| Indoor unit | Outdoor unit | Hz-Volts | Voltage range | MCA | TOCA | MFA | LRA | RLA | kW | FLA | kW | FLA |
| FCQ100B | RR100B8V3B | 50-230 | Max. 50Hz-253V Min. 50Hz-207V | 23.8 | 34.8 | 40 | 98.5 | 17.6 | 0.090 | 0.8 | 0.090 | 1.0 |
| FCQ100C | RR100B8V3B | 50-230 | | 23.5 | 34.5 | 40 | 98.5 | 17.6 | 0.090 | 0.8 | 0.120 | 0.7 |
| FUQ100 | RR100B8V3B | 50-230 | | 23.3 | 34.9 | 40 | 98.5 | 17.1 | 0.090 | 0.8 | 0.090 | 1.1 |
| FHQ100 | RR100B8V3B | 50-230 | | 23.0 | 34.5 | 40 | 98.5 | 17.2 | 0.090 | 0.8 | 0.130 | 0.7 |
| FAQ100 | RR100B8V3B | 50-230 | | 23.0 | 34.2 | 40 | 98.5 | 17.4 | 0.090 | 0.8 | 0.049 | 0.4 |
| FBQ100 | RR100B8V3B | 50-230 | | 23.2 | 34.8 | 40 | 98.5 | 17.1 | 0.090 | 0.8 | 0.135 | 1.0 |
| FCQ100B | RR100B8W1B | 50-400 | Max. 50Hz-440V Min. 50Hz-360V | 9.2 | 11.8 | 16 | 48.2 | 5.9 | 0.090 | 0.8 | 0.090 | 1.0 |
| FCQ100C | RR100B8W1B | 50-400 | | 8.9 | 11.5 | 16 | 48.2 | 5.9 | 0.090 | 0.8 | 0.120 | 0.7 |
| FUQ100 | RR100B8W1B | 50-400 | | 8.9 | 11.9 | 16 | 48.2 | 5.6 | 0.090 | 0.8 | 0.090 | 1.1 |
| FHQ100 | RR100B8W1B | 50-400 | | 8.6 | 11.5 | 16 | 48.2 | 5.7 | 0.090 | 0.8 | 0.130 | 0.7 |
| FAQ100 | RR100B8W1B | 50-400 | | 8.3 | 11.2 | 16 | 48.2 | 5.7 | 0.090 | 0.8 | 0.049 | 0.4 |
| FBQ100 | RR100B8W1B | 50-400 | | 8.9 | 11.8 | 16 | 48.2 | 5.7 | 0.090 | 0.8 | 0.135 | 1.0 |

3TW26399-9B

SYMBOLS

MCA : Min. Circuit Amps
TOCA : Total Over Current Amps
MFA : Max. Fuse Amps (see note 7)
LRA : Locked Rotor Amps
RLA : Rated Load Amps
OFM : Outdoor Fan Motor
IFM : Indoor Fan Motor
FLA : Full Load Amps
kW : Rated motor output

NOTES

1. RLA is based on the following conditions:
Indoor temp.: 27°CDB/19.5°CWB
Outdoor temp. : 35°CDB
2. TOCA means the total value of each OC set
3. Voltage range
Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed operation range limits
4. Maximum allowable voltage unbalance between phases is 2%.
5. MCA/MFA
 $MCA = 1.25 \times RLA + \text{all FLA}$, $MFA = < 2.25 \times RLA + \text{all FLA}$ (next lower standard fuse rating Min. 16A)
6. Select wire size based on the larger value of MCA or TOCA
7. Instead of fuse, use circuit breaker
8. For more details concerning conditional connections, see <http://www.daikineurope.com/extranet>, select "Daikin Documentation" and select "conditional connection", "the requested product type" and "English" from the drop down lists, click the search button.
Finally, click on the document title of your choice.

3 Electrical data

| Unit combination | | Power supply | | | | | Compressor | | OFM | | IFM | |
|------------------|--------------|--------------|----------------------------------|------|------|-----|------------|-----|-----------------|---------|-------|-----|
| Indoor unit | Outdoor unit | Hz-Volts | Voltage range | MCA | TOCA | MFA | LRA | RLA | kW | FLA | kW | FLA |
| FCQ125B | RR125B8W1B | 50-400 | Max. 50Hz-400V Min. 50Hz-360V | 11.9 | 15.3 | 20 | 63 | 7.7 | 0.065 +0.085 | 0.6+0.7 | 0.09 | 1.0 |
| FCQ125C | RR125B8W1B | 50-400 | | 11.9 | 15.3 | 20 | 63 | 7.7 | 0.065 +0.085 | 0.6+0.7 | 0.12 | 1.0 |
| FUQ125 | RR125B8W1B | 50-400 | | 11.7 | 15.4 | 20 | 63 | 7.4 | 0.065 +0.085 | 0.6+0.7 | 0.09 | 1.1 |
| FHQ125 | RR125B8W1B | 50-400 | | 11.4 | 15.0 | 20 | 63 | 7.5 | 0.065 +0.085 | 0.6+0.7 | 0.13 | 0.7 |
| FBQ125 | RR125B8W1B | 50-400 | | 12.2 | 15.7 | 20 | 63 | 7.6 | 0.065 +0.085 | 0.6+0.7 | 0.225 | 1.4 |
| FDQ125 | RR125B8W1B | 50-400 | | 14.9 | 18.5 | 20 | 63 | 7.5 | 0.065 +0.085 | 0.6+0.7 | 0.5 | 4.2 |

3TW26419-9B

SYMBOLS

| | |
|------|-------------------------------|
| MCA | : Min. Circuit Amps |
| TOCA | : Total Over Current Amps |
| MFA | : Max. Fuse Amps (see note 7) |
| LRA | : Locked Rotor Amps |
| RLA | : Rated Load Amps |
| OFM | : Outdoor Fan Motor |
| IFM | : Indoor Fan Motor |
| FLA | : Full Load Amps |
| kW | : Rated motor output |

NOTES

1. RLA is based on the following conditions:
Indoor temp.: 27°CDB/19.5°CWB
Outdoor temp. : 35°CDB
2. TOCA means the total value of each OC set
3. Voltage range
Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed operation range limits
4. Maximum allowable voltage unbalance between phases is 2%.
5. MCA/MFA
 $MCA = 1.25 \times RLA + \text{all FLA}$, $MFA = < 2.25 \times RLA + \text{all FLA}$ (next lower standard fuse rating Min. 16A)
6. Select wire size based on the larger value of MCA or TOCA
7. Instead of fuse, use circuit breaker
8. For more details concerning conditional connections, see
<http://www.daikineurope.com/extranet>, select "Daikin Documentation" and select "conditional connection", "the requested product type" and "English" from the drop down lists, click the search button.
Finally, click on the document title of your choice.

4 Safety device settings

RR-RQ

| Safety device model | RQ71BV3 | RQ100BV3 | RQ125BW1 | RR71BV3 | RR100BV3 | RR125BW1 |
|-----------------------------|---|-----------|-----------|---------|----------|----------|
| | RQ71BW1 | RQ100BW1 | | RR71BW1 | RR100BW1 | |
| | REQ71BV3 | REQ100BV3 | REQ125BW1 | | | |
| | REQ71BW1 | REQ100BW1 | | | | |
| Fan motor thermal protector | Off 135 ±5°C | | | | | |
| | On 95 ±15°C | | | | | |
| HPS | Off 4,15 ⁺⁰ / _{-0,10} Mpa | | | | | |
| | On 3,2 ^{+0,15} / _{-0,15} Mpa | | | | | |
| LPS | Off -0,03 ^{+0,02} / _{-0,02} Mpa | | | | | |
| | On 0,05 ^{+0,03} / _{-0,03} Mpa | | | | | |
| Max discharge temperature | By thermistor and software control | | | | | |
| Overcurrent relay | By overcurrent sensor and software control | | | | | |

4TW26321-2B

5 Options

Available option for RQ71-125B(V3, W1) and RR71-125B(V3, W1)

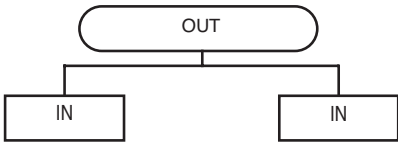
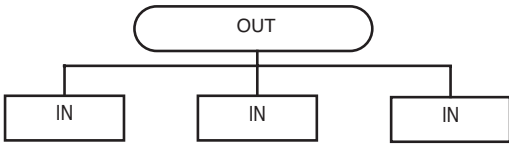
| Name of option | | Kit name | | | | | |
|---------------------------|--------|-------------|----------|--------|-------|----------|--------|
| | | RQ71B | RQ100B | RQ125B | RR71B | RR100B | RR125B |
| Central drain plug | | KKPJ5F180 | | | | | |
| Refrigerant branch piping | Twin | KHRQ22M20TA | | | | | |
| | Triple | - | KHRQ127H | | - | KHRQ127H | |

3TW26329-1A

6 Capacity tables

6 - 1 Combination table

Possible combinations and standard capacity for twin and triple operation

| Outdoor models | Possible indoor combination | | | | | | |
|----------------------------|---|-------------------------|-------------------------|--|--|--|--|
| | Simultaneous operation | | | | | | |
| | Twin | | | Triple | | | |
| |  | | |  | | | |
| RQ71BV3/W1 RR71BV3/W1 | 35-35 (KHRQ22M20TA7) | | | | | | |
| RQ100BV3/W1 RR100BV3/W1 | 50-50 (KHRQ22M20TA7) | 50-60 (KHRQ22M20TA7) | 35-71 (KHRQ22M20TA7) | 35-35-35 (KHRQ127H7) | | | |
| RQ125BW1 RR125BW1 | 60-60 (KHRQ22M20TA7) | 50-71 (KHRQ22M20TA7) | | 50-50-50 (KHRQ127H7) | | | |

- Possible indoor types:
FCQ 35-71
FFQ 35-60
FUQ 71
FHQ 35-71
FAQ 71
FBQ 35-71
- Individual indoor capacities are not given because the combinations are for simultaneous operation (= indoor units installed in same room).
- When different indoor models are used in combination, designate the remote controller that is equipped with the most functions as the main unit.
- Between brackets are the required Refnet kits mentioned, that are necessary to install the combination.
- For unit specification of the outdoor units and the indoor units refer to the unit specifications mentioned for pair systems.
- Nominal cooling capacities are based on the following conditions: indoor air temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB.
Nominal heating capacities are based on the following conditions: indoor air temperature: 20°CDB, outdoor temperature 7°CDB, 6°CWB.

3TW26329-3

6 Capacity tables

6 - 2 Cooling capacity tables

FAQ71-100B + RR71-100BV3 / RR71-100BW1

Cooling capacity

| Outdoor | Indoor | | Outdoor temperature (°CDB) | | | | | | | | | | | | | | | | | |
|---------|----------|----------|----------------------------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|
| | EWB (°C) | EDB (°C) | 20 | | | 25 | | | 32 | | | 35 | | | 40 | | | 46 | | |
| | | | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| 71 | 12.0 | 18.0 | 6.2 | 4.9 | 1.81 | 6.1 | 4.8 | 1.97 | 5.7 | 4.7 | 2.20 | 5.5 | 4.6 | 2.36 | 5.3 | 4.5 | 2.60 | 4.8 | 4.1 | 2.83 |
| | 14.0 | 20.0 | 6.6 | 4.9 | 1.84 | 6.5 | 4.8 | 2.00 | 6.0 | 4.7 | 2.24 | 5.9 | 4.6 | 2.40 | 5.5 | 4.5 | 2.64 | 5.2 | 4.1 | 2.88 |
| | 16.0 | 22.0 | 7.2 | 5.0 | 1.88 | 7.0 | 4.9 | 2.04 | 6.5 | 4.8 | 2.28 | 6.3 | 4.7 | 2.45 | 6.0 | 4.6 | 2.69 | 5.4 | 4.2 | 2.93 |
| | 18.0 | 25.0 | 7.7 | 5.2 | 1.92 | 7.5 | 5.0 | 2.09 | 7.2 | 4.9 | 2.34 | 6.8 | 4.8 | 2.50 | 6.4 | 4.6 | 2.76 | 5.9 | 4.4 | 3.01 |
| | 19.0 | 27.0 | 8.0 | 5.3 | 1.94 | 7.7 | 5.2 | 2.11 | 7.3 | 5.0 | 2.36 | 7.1 | 4.8 | 2.53 | 6.6 | 4.7 | 2.78 | 6.1 | 4.5 | 3.04 |
| | 19.5 | 27.0 | 8.0 | 5.3 | 1.95 | 7.9 | 5.2 | 2.12 | 7.4 | 5.0 | 2.37 | 7.2 | 4.8 | 2.54 | 6.7 | 4.7 | 2.79 | 6.2 | 4.5 | 3.05 |
| | 22.0 | 30.0 | 8.7 | 5.4 | 1.98 | 8.5 | 5.3 | 2.16 | 8.0 | 5.2 | 2.42 | 7.9 | 4.9 | 2.59 | 7.4 | 4.8 | 2.85 | 6.7 | 4.5 | 3.11 |
| | 24.0 | 32.0 | 9.4 | 5.4 | 2.00 | 9.1 | 5.3 | 2.18 | 8.6 | 5.2 | 2.44 | 8.4 | 5.0 | 2.61 | 8.0 | 4.8 | 2.88 | 7.3 | 4.5 | 3.14 |
| 100 | 12.0 | 18.0 | 8.4 | 7.2 | 2.49 | 8.3 | 7.1 | 2.75 | 8.1 | 6.9 | 3.11 | 7.8 | 6.8 | 3.29 | 7.5 | 6.4 | 3.64 | 6.8 | 6.1 | 4.08 |
| | 14.0 | 20.0 | 8.9 | 7.2 | 2.53 | 8.8 | 7.1 | 2.80 | 8.7 | 6.9 | 3.16 | 8.4 | 6.8 | 3.34 | 7.8 | 6.4 | 3.71 | 7.4 | 6.1 | 4.16 |
| | 16.0 | 22.0 | 10.1 | 7.3 | 2.57 | 9.8 | 7.2 | 2.85 | 9.1 | 7.0 | 3.22 | 8.9 | 6.9 | 3.40 | 8.5 | 6.5 | 3.77 | 7.7 | 6.2 | 4.23 |
| | 18.0 | 25.0 | 10.8 | 7.6 | 2.64 | 10.5 | 7.5 | 2.92 | 9.8 | 7.1 | 3.30 | 9.6 | 7.0 | 3.48 | 9.0 | 6.8 | 3.86 | 8.3 | 6.3 | 4.33 |
| | 19.0 | 27.0 | 11.1 | 7.7 | 2.66 | 10.8 | 7.6 | 2.95 | 10.1 | 7.2 | 3.33 | 10.0 | 7.1 | 3.52 | 9.4 | 6.9 | 3.90 | 8.6 | 6.4 | 4.38 |
| | 19.5 | 27.0 | 11.2 | 7.7 | 2.67 | 11.0 | 7.6 | 2.96 | 10.3 | 7.2 | 3.34 | 10.1 | 7.1 | 3.53 | 9.5 | 6.9 | 3.91 | 8.7 | 6.4 | 4.39 |
| | 22.0 | 30.0 | 12.2 | 7.8 | 2.73 | 11.8 | 7.7 | 3.02 | 11.2 | 7.3 | 3.41 | 11.0 | 7.2 | 3.60 | 10.4 | 7.1 | 3.99 | 9.5 | 6.7 | 4.48 |
| | 24.0 | 32.0 | 13.0 | 7.9 | 2.75 | 12.7 | 7.8 | 3.05 | 11.9 | 7.5 | 3.44 | 11.6 | 7.3 | 3.64 | 11.1 | 7.2 | 4.03 | 10.2 | 6.8 | 4.52 |

SYMBOLS

FR: Air flow rate [m³/min.]
 BF: Bypass factor
 EWB: Entering wet bulb temp. [°CWB]
 EDB: Entering dry bulb temp. [°CDB]
 DB*: Dry bulb temp. [°CDB]
 TC: Total capacity cooling [kW]
 SHC: Sensible heat capacity [kW]
 PI: Power input (Comp. + indoor + outdoor fan motor) [kW]

CAUTION

TC and SHC are given in kW.
 V1/V3: 230V [50 Hz]
 W1: 400V [50Hz]

NOTES

- Ratings shown are net capacities. Influence on fan motor heat is included.
- shows nominal capacities.
- SHC is based on each EWB and EDB.
 $SHC^* = SHC \text{ correction for other dry bulb.}$
 $= 0.29 \times 60 \times AFR [m³/min.] \times (1-BF) \times (DB^*-EDB)/860$
 Add SHC* to SHC if SHC > TC, then TC = SHC.
- Direct interpolation is permissible. Do not extrapolate.
- Capacities are based on the following conditions.
 Corresponding refrigerant piping length: 7.5m
 Level difference: 0m
- Air flow rate and BF are tabulated below.

| Model | | FAQ |
|-------|-----|------|
| 71 | AFR | 19 |
| | BF | 0.08 |
| 100 | AFR | 23 |
| | BF | 0.1 |

- Add the following corrections to power input of each model.

| Model | | FAQ |
|-------|----|------|
| 71 | V3 | 0.12 |
| | W1 | 0 |
| 100 | V3 | 0.04 |
| | W1 | 0 |

3TW26372-5

6 Capacity tables

6 - 2 Cooling capacity tables

FUQ71-125B + RR71-100BV3/ RR71-125BW1

Cooling capacity table

| Outdoor | Indoor | | Outdoor temp. (°CDB) | | | | | | | | | | | | | | | | | |
|---------|--------|------|----------------------|------|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|
| | EWB | EDB | 20 | | | 25 | | | 32 | | | 35 | | | 40 | | | 46 | | |
| | (°C) | (°C) | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| 71 | 12.0 | 18.0 | 6.2 | 4.9 | 1.90 | 6.1 | 4.8 | 2.06 | 5.7 | 4.7 | 2.31 | 5.5 | 4.6 | 2.47 | 5.3 | 4.5 | 2.72 | 4.8 | 4.1 | 2.97 |
| | 14.0 | 20.0 | 6.6 | 4.9 | 1.93 | 6.5 | 4.8 | 2.10 | 6.0 | 4.7 | 2.35 | 5.9 | 4.6 | 2.52 | 5.5 | 4.5 | 2.77 | 5.2 | 4.1 | 3.02 |
| | 16.0 | 22.0 | 7.2 | 5.0 | 1.96 | 7.0 | 4.9 | 2.13 | 6.5 | 4.8 | 2.39 | 6.3 | 4.7 | 2.56 | 6.0 | 4.6 | 2.82 | 5.4 | 4.2 | 3.07 |
| | 18.0 | 25.0 | 7.7 | 5.2 | 2.01 | 7.5 | 5.0 | 2.19 | 7.2 | 4.9 | 2.45 | 6.8 | 4.8 | 2.62 | 6.4 | 4.6 | 2.89 | 5.9 | 4.4 | 3.15 |
| | 19.0 | 27.0 | 8.0 | 5.3 | 2.03 | 7.7 | 5.2 | 2.21 | 7.3 | 5.0 | 2.47 | 7.1 | 4.8 | 2.65 | 6.6 | 4.7 | 2.92 | 6.1 | 4.5 | 3.18 |
| | 19.5 | 27.0 | 8.0 | 5.3 | 2.04 | 7.9 | 5.2 | 2.22 | 7.4 | 5.0 | 2.48 | 7.2 | 4.8 | 2.66 | 6.7 | 4.7 | 2.92 | 6.2 | 4.5 | 3.19 |
| | 22.0 | 30.0 | 8.7 | 5.4 | 2.08 | 8.5 | 5.3 | 2.26 | 8.0 | 5.2 | 2.53 | 7.9 | 4.9 | 2.71 | 7.4 | 4.8 | 2.98 | 6.7 | 4.5 | 3.25 |
| | 24.0 | 32.0 | 9.4 | 5.4 | 2.10 | 9.1 | 5.3 | 2.28 | 8.6 | 5.2 | 2.56 | 8.4 | 5.0 | 2.74 | 8.0 | 4.8 | 3.01 | 7.3 | 4.5 | 3.29 |
| 100 | 12.0 | 18.0 | 8.4 | 7.2 | 2.67 | 8.3 | 7.1 | 2.96 | 8.1 | 6.9 | 3.34 | 7.8 | 6.8 | 3.53 | 7.5 | 6.4 | 3.91 | 6.8 | 6.1 | 4.39 |
| | 14.0 | 20.0 | 8.9 | 7.2 | 2.72 | 8.8 | 7.1 | 3.01 | 8.7 | 6.9 | 3.40 | 8.4 | 6.8 | 3.59 | 7.8 | 6.4 | 3.98 | 7.4 | 6.1 | 4.46 |
| | 16.0 | 22.0 | 10.1 | 7.3 | 2.77 | 9.8 | 7.2 | 3.06 | 9.1 | 7.0 | 3.46 | 8.9 | 6.9 | 3.65 | 8.5 | 6.5 | 4.05 | 7.7 | 6.2 | 4.54 |
| | 18.0 | 25.0 | 10.8 | 7.6 | 2.83 | 10.5 | 7.5 | 3.14 | 9.8 | 7.1 | 3.54 | 9.6 | 7.0 | 3.74 | 9.0 | 6.8 | 4.15 | 8.3 | 6.3 | 4.65 |
| | 19.0 | 27.0 | 11.1 | 7.7 | 2.86 | 10.8 | 7.6 | 3.17 | 10.1 | 7.2 | 3.58 | 10.0 | 7.1 | 3.78 | 9.4 | 6.9 | 4.19 | 8.6 | 6.4 | 4.70 |
| | 19.5 | 27.0 | 11.2 | 7.7 | 2.87 | 11.0 | 7.6 | 3.18 | 10.3 | 7.2 | 3.59 | 10.1 | 7.1 | 3.79 | 9.5 | 6.9 | 4.20 | 8.7 | 6.4 | 4.72 |
| | 22.0 | 30.0 | 12.2 | 7.8 | 2.93 | 11.8 | 7.7 | 3.24 | 11.2 | 7.3 | 3.66 | 11.0 | 7.2 | 3.87 | 10.4 | 7.1 | 4.29 | 9.5 | 6.7 | 4.81 |
| | 24.0 | 32.0 | 13.0 | 7.9 | 2.96 | 12.7 | 7.8 | 3.27 | 11.9 | 7.5 | 3.69 | 11.6 | 7.3 | 3.91 | 11.1 | 7.2 | 4.33 | 10.2 | 6.8 | 4.86 |
| 125 | 12.0 | 18.0 | 11.1 | 9.5 | 3.43 | 10.8 | 9.2 | 3.62 | 10.0 | 8.7 | 3.98 | 9.7 | 8.6 | 4.27 | 9.2 | 8.4 | 4.73 | 8.5 | 7.9 | 5.19 |
| | 14.0 | 20.0 | 11.8 | 9.5 | 3.49 | 11.4 | 9.2 | 3.68 | 10.7 | 8.7 | 4.06 | 10.4 | 8.6 | 4.34 | 9.8 | 8.4 | 4.82 | 9.1 | 7.9 | 5.28 |
| | 16.0 | 22.0 | 12.7 | 9.6 | 3.56 | 12.1 | 9.3 | 3.75 | 11.4 | 8.8 | 4.13 | 11.1 | 8.7 | 4.42 | 10.4 | 8.5 | 4.90 | 9.6 | 8.0 | 5.38 |
| | 18.0 | 25.0 | 13.3 | 9.9 | 3.64 | 13.0 | 9.5 | 3.84 | 12.1 | 9.1 | 4.23 | 11.8 | 9.0 | 4.52 | 11.2 | 8.7 | 5.02 | 10.3 | 8.3 | 5.51 |
| | 19.0 | 27.0 | 13.6 | 10.0 | 3.68 | 13.3 | 9.5 | 3.88 | 12.7 | 9.2 | 4.27 | 12.2 | 9.0 | 4.57 | 11.5 | 8.8 | 5.07 | 10.7 | 8.4 | 5.56 |
| | 19.5 | 27.0 | 13.8 | 10.0 | 3.69 | 13.5 | 9.5 | 3.89 | 12.8 | 9.2 | 4.28 | 12.4 | 9.1 | 4.59 | 11.7 | 8.8 | 5.09 | 10.9 | 8.4 | 5.58 |
| | 22.0 | 30.0 | 15.1 | 10.1 | 3.76 | 14.6 | 9.8 | 3.97 | 13.7 | 9.4 | 4.37 | 13.4 | 9.3 | 4.68 | 12.9 | 9.1 | 5.19 | 11.9 | 8.6 | 5.69 |
| | 24.0 | 32.0 | 15.9 | 10.2 | 3.80 | 15.5 | 9.9 | 4.01 | 14.6 | 9.5 | 4.41 | 14.3 | 9.4 | 4.72 | 13.6 | 9.2 | 5.24 | 12.8 | 8.9 | 5.75 |

3TW26372-4A

SYMBOLS

| | | |
|------|----------------------------------|----------|
| AFR: | Air flow rate | (m³/min) |
| BF: | Bypass factor | |
| EWB: | Entering wet bulb temp. | (°CWB) |
| EDB: | Entering dry bulb temp. | (°CDB) |
| DB*: | Dry bulb temp. | (°CDB) |
| TC: | Total cooling/heating capacity | (kW) |
| SHC: | Sensible heating capacity | (kW) |
| PI: | Power input | (kW) |
| | (comp.+indoor+outdoor fan motor) | |

Caution:

TC and SHC are shown by kW
V1/V3: 230 V [50 Hz]
W1: 400 V [50 Hz]

NOTES

- Ratings shown are net capacities.
Influence of fan motor heat is included.
- Shows nominal capacities
- SHC is based on each EWB and EDB
SHC* = SHC correction for other dry bulb
SHC* = 0.29 x 60 x AFR (m³/min.) x (1-BF) x (DB*-EDB)/860
Add SHC* to SHC if SHC > TC, then TC equal SHC
- Direct interpolation is permissible.
Do not extrapolate.
- Capacities are based on following conditions:
Corresponding refrigerant piping length : 7.5 m
Level difference : 0 m
- Air flow rate and BF are tabulated below.

| Model | | FUQ |
|-------|-----|------|
| 71 | AFR | 19 |
| | BF | 0.07 |
| 100 | AFR | 29 |
| | BF | 0.07 |
| 125 | AFR | 45 |
| | BF | 0.25 |

- Add the following corrections to power input of each model.

| Model | Supply | FUQ |
|-------|--------|------|
| 71 | V3 | 0.05 |
| | W1 | 0 |
| 100 | V3 | 0.05 |
| | W1 | 0 |
| 125 | V3 | 0 |
| | W1 | 0 |

6 Capacity tables

6 - 2 Cooling capacity tables

FHQ71-125B + RR71-100BV3 / RR71-100BW1

Cooling capacity

| Outdoor | Indoor | | Outdoor temperature (°CDB) | | | | | | | | | | | | | | | | | |
|---------|----------|----------|----------------------------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|
| | EWB (°C) | EDB (°C) | 20 | | | 25 | | | 32 | | | 35 | | | 40 | | | 46 | | |
| | | | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| 71 | 12,0 | 18,0 | 6,2 | 4,8 | 1,90 | 6,1 | 4,7 | 2,06 | 5,7 | 4,6 | 2,31 | 5,5 | 4,5 | 2,47 | 5,3 | 4,4 | 2,72 | 4,8 | 4,0 | 2,97 |
| | 14,0 | 20,0 | 6,6 | 4,8 | 1,93 | 6,5 | 4,7 | 2,10 | 6,0 | 4,6 | 2,35 | 5,9 | 4,5 | 2,52 | 5,5 | 4,4 | 2,77 | 5,2 | 4,0 | 3,02 |
| | 16,0 | 22,0 | 7,2 | 4,9 | 1,96 | 7,0 | 4,8 | 2,13 | 6,5 | 4,7 | 2,39 | 6,3 | 4,6 | 2,56 | 6,0 | 4,5 | 2,82 | 5,4 | 4,1 | 3,07 |
| | 18,0 | 25,0 | 7,7 | 5,1 | 2,01 | 7,5 | 4,9 | 2,19 | 7,2 | 4,8 | 2,45 | 6,8 | 4,7 | 2,62 | 6,4 | 4,5 | 2,89 | 5,9 | 4,3 | 3,15 |
| | 19,0 | 27,0 | 8,0 | 5,2 | 2,03 | 7,7 | 5,1 | 2,21 | 7,3 | 4,9 | 2,47 | 7,1 | 4,7 | 2,65 | 6,6 | 4,6 | 2,92 | 6,1 | 4,4 | 3,18 |
| | 19,5 | 27,0 | 8,0 | 5,2 | 2,04 | 7,9 | 5,1 | 2,22 | 7,4 | 4,9 | 2,48 | 7,2 | 4,7 | 2,66 | 6,7 | 4,6 | 2,92 | 6,2 | 4,4 | 3,19 |
| | 22,0 | 30,0 | 8,7 | 5,3 | 2,08 | 8,5 | 5,2 | 2,26 | 8,0 | 5,1 | 2,53 | 7,9 | 4,8 | 2,71 | 7,4 | 4,7 | 2,98 | 6,7 | 4,4 | 3,25 |
| | 24,0 | 32,0 | 9,4 | 5,3 | 2,10 | 9,1 | 5,2 | 2,28 | 8,6 | 5,1 | 2,56 | 8,4 | 4,9 | 2,74 | 8,0 | 4,7 | 3,01 | 7,3 | 4,4 | 3,29 |
| 100 | 12,0 | 18,0 | 8,2 | 6,8 | 2,60 | 8,1 | 6,7 | 2,88 | 7,9 | 6,5 | 3,25 | 7,6 | 6,4 | 3,43 | 7,3 | 6,0 | 3,81 | 6,6 | 5,7 | 4,27 |
| | 14,0 | 20,0 | 8,7 | 6,8 | 2,65 | 8,6 | 6,7 | 2,93 | 8,5 | 6,5 | 3,31 | 8,2 | 6,4 | 3,50 | 7,6 | 6,0 | 3,87 | 7,2 | 5,7 | 4,35 |
| | 16,0 | 22,0 | 9,9 | 6,9 | 2,69 | 9,6 | 6,8 | 2,98 | 8,9 | 6,6 | 3,37 | 8,7 | 6,5 | 3,56 | 8,3 | 6,1 | 3,94 | 7,5 | 5,8 | 4,42 |
| | 18,0 | 25,0 | 10,6 | 7,2 | 2,76 | 10,3 | 7,1 | 3,05 | 9,6 | 6,7 | 3,45 | 9,4 | 6,6 | 3,64 | 8,8 | 6,4 | 4,04 | 8,1 | 5,9 | 4,53 |
| | 19,0 | 27,0 | 10,9 | 7,3 | 2,78 | 10,6 | 7,2 | 3,08 | 9,9 | 6,8 | 3,48 | 9,8 | 6,7 | 3,68 | 9,2 | 6,5 | 4,08 | 8,4 | 6,0 | 4,58 |
| | 19,5 | 27,0 | 11,0 | 7,3 | 2,79 | 10,8 | 7,2 | 3,09 | 10,1 | 6,8 | 3,49 | 9,9 | 6,7 | 3,69 | 9,3 | 6,5 | 4,09 | 8,5 | 6,0 | 4,59 |
| | 22,0 | 30,0 | 12,0 | 7,4 | 2,85 | 11,6 | 7,3 | 3,16 | 11,0 | 6,9 | 3,56 | 10,8 | 6,8 | 3,77 | 10,2 | 6,7 | 4,17 | 9,3 | 6,3 | 4,68 |
| | 24,0 | 32,0 | 12,8 | 7,5 | 2,88 | 12,5 | 7,4 | 3,19 | 11,7 | 7,1 | 3,60 | 11,4 | 6,9 | 3,80 | 10,9 | 6,8 | 4,21 | 10,0 | 6,4 | 4,73 |
| 125 | 12,0 | 18,0 | 11,1 | 9,1 | 3,39 | 10,8 | 8,8 | 3,57 | 10,0 | 8,3 | 3,93 | 9,7 | 8,2 | 4,21 | 9,2 | 8,0 | 4,67 | 8,5 | 7,5 | 5,12 |
| | 14,0 | 20,0 | 11,8 | 9,1 | 3,45 | 11,4 | 8,8 | 3,64 | 10,7 | 8,3 | 4,00 | 10,4 | 8,2 | 4,28 | 9,8 | 8,0 | 4,75 | 9,1 | 7,5 | 5,21 |
| | 16,0 | 22,0 | 12,7 | 9,2 | 3,51 | 12,1 | 8,9 | 3,70 | 11,4 | 8,4 | 4,07 | 11,1 | 8,3 | 4,36 | 10,4 | 8,1 | 4,84 | 9,6 | 7,6 | 5,31 |
| | 18,0 | 25,0 | 13,3 | 9,5 | 3,59 | 13,0 | 9,1 | 3,79 | 12,1 | 8,7 | 4,17 | 11,8 | 8,6 | 4,46 | 11,2 | 8,3 | 4,95 | 10,3 | 7,9 | 5,43 |
| | 19,0 | 27,0 | 13,6 | 9,6 | 3,63 | 13,3 | 9,1 | 3,83 | 12,7 | 8,8 | 4,21 | 12,2 | 8,6 | 4,51 | 11,5 | 8,4 | 5,00 | 10,7 | 8,0 | 5,49 |
| | 19,5 | 27,0 | 13,8 | 9,6 | 3,64 | 13,5 | 9,1 | 3,84 | 12,8 | 8,8 | 4,23 | 12,4 | 8,7 | 4,53 | 11,7 | 8,4 | 5,02 | 10,9 | 8,0 | 5,51 |
| | 22,0 | 30,0 | 15,1 | 9,7 | 3,71 | 14,6 | 9,4 | 3,92 | 13,7 | 9,0 | 4,31 | 13,4 | 8,9 | 4,62 | 12,9 | 8,7 | 5,12 | 11,9 | 8,2 | 5,62 |
| | 24,0 | 32,0 | 15,9 | 9,8 | 3,75 | 15,5 | 9,5 | 3,96 | 14,6 | 9,1 | 4,35 | 14,3 | 9,0 | 4,66 | 13,6 | 8,8 | 5,17 | 12,8 | 8,5 | 5,67 |

SYMBOLS

FR: Air flow rate [m³/min.]

BF: Bypass factor

EWB: Entering wet bulb temp. [°CWB]

EDB: Entering dry bulb temp. [°CDB]

DB*: Dry bulb temp. [°CDB]

TC: Total capacity cooling [kW]

SHC: Sensible heat capacity [kW]

PI: Power input (Comp. + indoor + outdoor fan motor) [kW]

CAUTION

TC and SHC are given in kW.

V1/V3: 230V [50 Hz]

W1: 400V [50Hz]

NOTES

- Ratings shown are net capacities. Influence on fan motor heat is included..
- shows nominal capacities.
- SHC is based on each EWB and EDB.
SHC* = SHC correction for other dry bulb.
= 0,29 x 60 x AFR [m³/min.] x (1-BF) x (DB*-EDB)/860
Add SHC* to SHC if SHC > TC, then TC = SHC.
- Direct interpolation is permissible. Do not extrapolate.
- Capacities are based on the following conditions.
Corresponding refrigerant piping length: 7,5m
Level difference: 0m
- Air flow rate and BF are tabulated below.

| Model | | FHQ |
|-------|-----|------|
| 71 | AFR | 17 |
| | BF | 0,1 |
| 100 | AFR | 24 |
| | BF | 0,14 |
| 125 | AFR | 30 |
| | BF | 0,13 |

- Add the following corrections to power input of each model.

| Model | | FHQ |
|-------|----|------|
| 71 | V3 | 0,05 |
| | W1 | 0 |
| 100 | V3 | 0,07 |
| | W1 | 0 |
| 125 | W1 | 0 |

3TW26372-3

6 Capacity tables

6 - 2 Cooling capacity tables

Cooling capacity table
FCQ71-125C7VEB+ RR71-100B8V3B
RR71-125B8W1B

| Outdoor | Indoor | | Outdoor temperature (°CDB) | | | | | | | | | | | | | | | | | |
|---------|--------|------|----------------------------|------|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|
| | EWB | EDB | 20 | | | 25 | | | 32 | | | 35 | | | 40 | | | 46 | | |
| | (°C) | (°C) | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| 71 | 12.0 | 18.0 | 6.2 | 5.0 | 1.90 | 6.1 | 4.9 | 2.07 | 5.7 | 4.8 | 2.32 | 5.5 | 4.7 | 2.48 | 5.3 | 4.6 | 2.73 | 4.8 | 4.2 | 2.98 |
| | 14.0 | 20.0 | 6.6 | 5.0 | 1.94 | 6.5 | 4.9 | 2.11 | 6.0 | 4.8 | 2.36 | 5.9 | 4.7 | 2.53 | 5.5 | 4.6 | 2.78 | 5.2 | 4.2 | 3.03 |
| | 16.0 | 22.0 | 7.2 | 5.1 | 1.97 | 7.0 | 5.0 | 2.14 | 6.5 | 4.9 | 2.40 | 6.3 | 4.8 | 2.57 | 6.0 | 4.7 | 2.83 | 5.4 | 4.3 | 3.09 |
| | 18.0 | 25.0 | 7.7 | 5.3 | 2.02 | 7.5 | 5.1 | 2.19 | 7.2 | 5.0 | 2.46 | 6.8 | 4.9 | 2.63 | 6.4 | 4.7 | 2.90 | 5.9 | 4.5 | 3.16 |
| | 19.0 | 27.0 | 8.0 | 5.4 | 2.04 | 7.7 | 5.3 | 2.22 | 7.3 | 5.1 | 2.48 | 7.1 | 4.9 | 2.66 | 6.6 | 4.8 | 2.93 | 6.1 | 4.6 | 3.19 |
| | 19.5 | 27.0 | 8.0 | 5.4 | 2.05 | 7.9 | 5.3 | 2.22 | 7.4 | 5.1 | 2.49 | 7.2 | 4.9 | 2.67 | 6.7 | 4.8 | 2.94 | 6.2 | 4.6 | 3.20 |
| | 22.0 | 30.0 | 8.7 | 5.5 | 2.09 | 8.5 | 5.4 | 2.27 | 8.0 | 5.3 | 2.54 | 7.9 | 5.0 | 2.72 | 7.4 | 4.9 | 2.99 | 6.7 | 4.6 | 3.27 |
| | 24.0 | 32.0 | 9.4 | 5.5 | 2.11 | 9.1 | 5.4 | 2.29 | 8.6 | 5.3 | 2.57 | 8.4 | 5.1 | 2.75 | 8.0 | 4.9 | 3.02 | 7.3 | 4.6 | 3.30 |
| 100 | 12.0 | 18.0 | 8.4 | 7.5 | 2.51 | 8.3 | 7.4 | 2.78 | 8.1 | 7.2 | 3.14 | 7.8 | 7.1 | 3.32 | 7.5 | 6.7 | 3.68 | 6.8 | 6.4 | 4.13 |
| | 14.0 | 20.0 | 8.9 | 7.5 | 2.56 | 8.8 | 7.4 | 2.83 | 8.7 | 7.2 | 3.20 | 8.4 | 7.1 | 3.38 | 7.8 | 6.7 | 3.75 | 7.4 | 6.4 | 4.20 |
| | 16.0 | 22.0 | 10.1 | 7.6 | 2.60 | 9.8 | 7.5 | 2.88 | 9.1 | 7.3 | 3.26 | 8.9 | 7.2 | 3.44 | 8.5 | 6.8 | 3.81 | 7.7 | 6.5 | 4.28 |
| | 18.0 | 25.0 | 10.8 | 7.9 | 2.67 | 10.5 | 7.8 | 2.95 | 9.6 | 7.4 | 3.33 | 9.6 | 7.3 | 3.52 | 9.0 | 7.1 | 3.91 | 8.3 | 6.6 | 4.38 |
| | 19.0 | 27.0 | 11.1 | 8.0 | 2.69 | 10.8 | 7.9 | 2.98 | 10.1 | 7.5 | 3.37 | 10.0 | 7.4 | 3.56 | 9.4 | 7.2 | 3.94 | 8.6 | 6.7 | 4.43 |
| | 19.5 | 27.0 | 11.2 | 8.0 | 2.70 | 11.0 | 7.9 | 2.99 | 10.3 | 7.5 | 3.38 | 10.1 | 7.4 | 3.57 | 9.5 | 7.2 | 3.96 | 8.7 | 6.7 | 4.44 |
| | 22.0 | 30.0 | 12.2 | 8.1 | 2.76 | 11.8 | 8.0 | 3.05 | 11.2 | 7.6 | 3.45 | 11.0 | 7.5 | 3.64 | 10.4 | 7.4 | 4.04 | 9.5 | 7.0 | 4.53 |
| | 24.0 | 32.0 | 13.0 | 8.2 | 2.78 | 12.7 | 8.1 | 3.08 | 11.9 | 7.8 | 3.48 | 11.6 | 7.6 | 3.68 | 11.1 | 7.5 | 4.08 | 10.2 | 7.1 | 4.57 |
| 125 | 12.0 | 18.0 | 11.4 | 9.5 | 3.50 | 11.1 | 9.2 | 3.69 | 10.3 | 8.7 | 4.06 | 10.0 | 8.6 | 4.35 | 9.5 | 8.4 | 4.83 | 8.8 | 7.9 | 5.29 |
| | 14.0 | 20.0 | 12.1 | 9.5 | 3.56 | 11.7 | 9.2 | 3.76 | 11.0 | 8.7 | 4.14 | 10.7 | 8.6 | 4.43 | 10.1 | 8.4 | 4.91 | 9.4 | 7.9 | 5.39 |
| | 16.0 | 22.0 | 13.0 | 9.6 | 3.63 | 12.4 | 9.3 | 3.82 | 11.7 | 8.8 | 4.21 | 11.4 | 8.7 | 4.50 | 10.7 | 8.5 | 5.00 | 9.9 | 8.0 | 5.48 |
| | 18.0 | 25.0 | 13.6 | 9.9 | 3.71 | 13.3 | 9.5 | 3.92 | 12.4 | 9.1 | 4.31 | 12.1 | 9.0 | 4.61 | 11.5 | 8.7 | 5.12 | 10.6 | 8.3 | 5.61 |
| | 19.0 | 27.0 | 13.9 | 10.0 | 3.75 | 13.6 | 9.5 | 3.95 | 13.0 | 9.2 | 4.35 | 12.5 | 9.0 | 4.66 | 11.8 | 8.8 | 5.17 | 11.0 | 8.4 | 5.67 |
| | 19.5 | 27.0 | 14.1 | 10.0 | 3.76 | 13.8 | 9.5 | 3.97 | 13.1 | 9.2 | 4.37 | 12.7 | 9.1 | 4.68 | 12.0 | 8.8 | 5.19 | 11.2 | 8.4 | 5.69 |
| | 22.0 | 30.0 | 15.4 | 10.1 | 3.84 | 14.9 | 9.8 | 4.05 | 14.0 | 9.4 | 4.46 | 13.7 | 9.3 | 4.77 | 13.2 | 9.1 | 5.29 | 12.2 | 8.6 | 5.80 |
| | 24.0 | 32.0 | 16.2 | 10.2 | 3.88 | 15.8 | 9.9 | 4.09 | 14.9 | 9.5 | 4.50 | 14.6 | 9.4 | 4.82 | 13.9 | 9.2 | 5.34 | 13.1 | 8.9 | 5.88 |

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SYMBOLS

| | | |
|------|---|-----------------------|
| AFR: | Air flow rate | (m ³ /min) |
| BF: | Bypass factor | |
| EWB: | Entering wet bulb temp. | (°CWB) |
| EDB: | Entering dry bulb temp. | (°CDB) |
| DB*: | Dry bulb temp. | (°CDB) |
| TC: | Total capacity | (kW) |
| SHC: | Sensible heating capacity | (kW) |
| PI: | Power input (Comp. + indoor + outdoor fan motor). | (kW) |


Caution

TC and SHC are shown by kW

V3: 230V (50Hz)

W1: 400V (50Hz)

NOTES

- 1 Ratings shown are net capacities which include a deduction for indoor fan motor heat
- 2  Shows nominal capacities
- 3 SHC is based on each EWB and EDB
SHC* = SHC correction for other dry bulb
= $0.29 \times 60 \times \text{AFR} [\text{m}^3/\text{min}] \times (1 - \text{BF}) \times (\text{DB}^* - \text{EDB}) / 860$
Add SHC* to SHC if SHC > TC, then TC equal SHC
- 4 Direct interpolation is permissible.
Do not extrapolate.
- 5 Capacities are based on following conditions:
Corresponding refrigerant piping length: 5 m
Level difference: 0 m
- 6 Air flow rate (AFR) and Bypass factor (BF) are tabulated below.

| Model | | FBQ |
|-------|-----|------|
| 71 | AFR | 15.5 |
| | BF | 0.19 |
| 100 | AFR | 23.5 |
| | BF | 0.16 |
| 125 | AFR | 27.5 |
| | RE | 0.19 |

- 7 Add the following corrections to power input of each model.

| Model | Supply | FBQ |
|-------|--------|------|
| 71 | V3 | 0.06 |
| | W1 | 0 |
| 100 | V3 | 0.27 |
| | W1 | 0 |
| 125 | W1 | 0 |

6 Capacity tables

6 - 2 Cooling capacity tables

FBQ71-125B+ RR71-100BV3/ RR71-125BW1

Cooling capacity table

| Outdoor | Indoor | | Outdoor temp. (°CDB) | | | | | | | | | | | | | | | | | |
|---------|--------|------|----------------------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|
| | EWB | EDB | 20 | | | 25 | | | 32 | | | 35 | | | 40 | | | 46 | | |
| | (°C) | (°C) | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| 71 | 12.0 | 18.0 | 6.2 | 4.8 | 1.92 | 6.1 | 4.7 | 2.08 | 5.7 | 4.6 | 2.33 | 5.5 | 4.5 | 2.50 | 5.3 | 4.4 | 2.75 | 4.8 | 4.0 | 3.00 |
| | 14.0 | 20.0 | 6.6 | 4.8 | 1.95 | 6.5 | 4.7 | 2.12 | 6.0 | 4.6 | 2.38 | 5.9 | 4.5 | 2.55 | 5.5 | 4.4 | 2.80 | 5.2 | 4.0 | 3.06 |
| | 16.0 | 22.0 | 7.2 | 4.9 | 1.99 | 7.0 | 4.8 | 2.16 | 6.5 | 4.7 | 2.42 | 6.3 | 4.6 | 2.59 | 6.0 | 4.5 | 2.85 | 5.4 | 4.1 | 3.11 |
| | 18.0 | 25.0 | 7.7 | 5.1 | 2.03 | 7.5 | 4.9 | 2.21 | 7.2 | 4.8 | 2.48 | 6.8 | 4.7 | 2.65 | 6.4 | 4.5 | 2.92 | 5.9 | 4.3 | 3.18 |
| | 19.0 | 27.0 | 8.0 | 5.2 | 2.05 | 7.7 | 5.1 | 2.23 | 7.3 | 4.9 | 2.50 | 7.1 | 4.7 | 2.68 | 6.6 | 4.6 | 2.95 | 6.1 | 4.4 | 3.22 |
| | 19.5 | 27.0 | 8.0 | 5.2 | 2.06 | 7.9 | 5.1 | 2.24 | 7.4 | 4.9 | 2.51 | 7.2 | 4.7 | 2.69 | 6.7 | 4.6 | 2.96 | 6.2 | 4.4 | 3.23 |
| | 22.0 | 30.0 | 8.7 | 5.3 | 2.10 | 8.5 | 5.2 | 2.29 | 8.0 | 5.1 | 2.56 | 7.9 | 4.8 | 2.74 | 7.4 | 4.7 | 3.02 | 6.7 | 4.4 | 3.29 |
| | 24.0 | 32.0 | 9.4 | 5.3 | 2.12 | 9.1 | 5.2 | 2.31 | 8.6 | 5.1 | 2.58 | 8.4 | 4.9 | 2.77 | 8.0 | 4.7 | 3.05 | 7.3 | 4.4 | 3.32 |
| 100 | 12.0 | 18.0 | 8.4 | 7.0 | 2.54 | 8.3 | 6.9 | 2.82 | 8.1 | 6.7 | 3.18 | 7.8 | 6.6 | 3.36 | 7.5 | 6.2 | 3.72 | 6.8 | 5.9 | 4.18 |
| | 14.0 | 20.0 | 8.9 | 7.0 | 2.59 | 8.8 | 6.9 | 2.87 | 8.7 | 6.7 | 3.24 | 8.4 | 6.6 | 3.42 | 7.8 | 6.2 | 3.79 | 7.4 | 5.9 | 4.25 |
| | 16.0 | 22.0 | 10.1 | 7.1 | 2.63 | 9.8 | 7.0 | 2.92 | 9.1 | 6.8 | 3.29 | 8.9 | 6.7 | 3.48 | 8.5 | 6.3 | 3.86 | 7.7 | 6.0 | 4.33 |
| | 18.0 | 25.0 | 10.8 | 7.4 | 2.70 | 10.5 | 7.3 | 2.99 | 9.8 | 6.9 | 3.37 | 9.6 | 6.8 | 3.56 | 9.0 | 6.6 | 3.95 | 8.3 | 6.1 | 4.43 |
| | 19.0 | 27.0 | 11.1 | 7.5 | 2.72 | 10.8 | 7.4 | 3.02 | 10.1 | 7.0 | 3.41 | 10.0 | 6.9 | 3.60 | 9.4 | 6.7 | 3.99 | 8.6 | 6.2 | 4.48 |
| | 19.5 | 27.0 | 11.2 | 7.5 | 2.73 | 11.0 | 7.4 | 3.03 | 10.3 | 7.0 | 3.42 | 10.1 | 6.9 | 3.61 | 9.5 | 6.7 | 4.00 | 8.7 | 6.2 | 4.49 |
| | 22.0 | 30.0 | 12.2 | 7.6 | 2.79 | 11.8 | 7.5 | 3.09 | 11.2 | 7.1 | 3.48 | 11.0 | 7.0 | 3.68 | 10.4 | 6.9 | 4.08 | 9.5 | 6.5 | 4.58 |
| | 24.0 | 32.0 | 13.0 | 7.7 | 2.82 | 12.7 | 7.6 | 3.12 | 11.9 | 7.3 | 3.52 | 11.6 | 7.1 | 3.72 | 11.1 | 7.0 | 4.12 | 10.2 | 6.6 | 4.62 |
| 125 | 12.0 | 18.0 | 11.1 | 9.1 | 3.51 | 10.8 | 8.8 | 3.70 | 10.0 | 8.3 | 4.07 | 9.7 | 8.2 | 4.36 | 9.2 | 8.0 | 4.84 | 8.5 | 7.5 | 5.30 |
| | 14.0 | 20.0 | 11.8 | 9.1 | 3.57 | 11.4 | 8.8 | 3.77 | 10.7 | 8.3 | 4.14 | 10.4 | 8.2 | 4.44 | 9.8 | 8.0 | 4.92 | 9.1 | 7.5 | 5.40 |
| | 16.0 | 22.0 | 12.7 | 9.2 | 3.63 | 12.1 | 8.9 | 3.83 | 11.4 | 8.4 | 4.22 | 11.1 | 8.3 | 4.51 | 10.4 | 8.1 | 5.01 | 9.6 | 7.6 | 5.49 |
| | 18.0 | 25.0 | 13.3 | 9.5 | 3.72 | 13.0 | 9.1 | 3.92 | 12.1 | 8.7 | 4.32 | 11.8 | 8.6 | 4.62 | 11.2 | 8.3 | 5.13 | 10.3 | 7.9 | 5.63 |
| | 19.0 | 27.0 | 13.6 | 9.6 | 3.76 | 13.3 | 9.1 | 3.96 | 12.7 | 8.8 | 4.36 | 12.2 | 8.6 | 4.67 | 11.5 | 8.4 | 5.18 | 10.7 | 8.0 | 5.68 |
| | 19.5 | 27.0 | 13.8 | 9.6 | 3.77 | 13.5 | 9.1 | 3.98 | 12.8 | 8.8 | 4.38 | 12.4 | 8.7 | 4.69 | 11.7 | 8.4 | 5.20 | 10.9 | 8.0 | 5.70 |
| | 22.0 | 30.0 | 15.1 | 9.7 | 3.85 | 14.6 | 9.4 | 4.06 | 13.7 | 9.0 | 4.46 | 13.4 | 8.9 | 4.78 | 12.9 | 8.7 | 5.30 | 11.9 | 8.2 | 5.82 |
| | 24.0 | 32.0 | 15.9 | 9.8 | 3.88 | 15.5 | 9.5 | 4.10 | 14.6 | 9.1 | 4.51 | 14.3 | 9.0 | 4.83 | 13.6 | 8.8 | 5.35 | 12.8 | 8.5 | 5.87 |

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SYMBOLS

| | | |
|------|----------------------------------|----------|
| AFR: | Air flow rate | (m³/min) |
| BF: | Bypass factor | |
| EWB: | Entering wet bulb temp. | (°CWB) |
| EDB: | Entering dry bulb temp. | (°CDB) |
| DB*: | Dry bulb temp. | (°CDB) |
| TC: | Total cooling/heating capacity | (kW) |
| SHC: | Sensible heating capacity | (kW) |
| PI: | Power input | (kW) |
| | (comp.+indoor+outdoor fan motor) | |

Caution:

TC and SHC are shown by kW
V3: 230 V [50 Hz]
W1: 400 V [50 Hz]

NOTES

- Ratings shown are net capacities.
Influence of fan motor heat is included.
- Shows nominal capacities
- SHC is based on each EWB and EDB
SHC* = SHC correction for other dry bulb
SHC* = 0.29 x 60 x AFR (m³/min.) x (1-BF) x (DB*-EDB)/860
Add SHC* to SHC if SHC > TC, then TC equal SHC
- Direct interpolation is permissible.
Do not extrapolate.
- Capacities are based on following conditions:
Corresponding refrigerant piping length : 7.5 m
Level difference : 0 m
- Air flow rate and BF are tabulated below.

| Model | | FBQ |
|-------|-----|------|
| 71 | AFR | 19 |
| | BF | 0.11 |
| 100 | AFR | 27 |
| | BF | 0.2 |
| 125 | AFR | 35 |
| | BF | 0.14 |

- Add the following corrections to power input of each model.

| Model | Supply | FBQ |
|-------|--------|------|
| 71 | V3 | 0.11 |
| | W1 | 0 |
| 100 | V3 | 0.19 |
| | W1 | 0 |
| 125 | W1 | 0 |

6 Capacity tables

6 - 2 Cooling capacity tables

FDQ71-125B + RR71-100BV3 / RR71-100BW1

Cooling capacity

| Outdoor | Indoor | | Outdoor temperature (°CDB) | | | | | | | | | | | | | | | | | |
|---------|-------------|-------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | EWB (°C) | EDB (°C) | 20 | | | 25 | | | 32 | | | 35 | | | 40 | | | 46 | | |
| | | | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| 125 | 12.0 | 18.0 | 11.4 | 10.7 | 3.60 | 11.1 | 10.4 | 3.79 | 10.3 | 9.9 | 4.18 | 10.0 | 9.8 | 4.47 | 9.5 | 9.6 | 4.96 | 8.8 | 9.1 | 5.44 |
| | 14.0 | 20.0 | 12.1 | 10.7 | 3.66 | 11.7 | 10.4 | 3.86 | 11.0 | 9.9 | 4.25 | 10.7 | 9.8 | 4.55 | 10.1 | 9.6 | 5.05 | 9.4 | 9.1 | 5.54 |
| | 16.0 | 22.0 | 13.0 | 10.8 | 3.73 | 12.4 | 10.5 | 3.93 | 11.7 | 10.0 | 4.33 | 11.4 | 9.9 | 4.63 | 10.7 | 9.7 | 5.14 | 9.9 | 9.2 | 5.64 |
| | 18.0 | 25.0 | 13.6 | 11.1 | 3.82 | 13.3 | 10.7 | 4.02 | 12.4 | 10.3 | 4.43 | 12.1 | 10.2 | 4.74 | 11.5 | 9.9 | 5.26 | 10.6 | 9.5 | 5.77 |
| | 19.0 | 27.0 | 13.9 | 11.2 | 3.86 | 13.6 | 10.7 | 4.07 | 13.0 | 10.4 | 4.47 | 12.5 | 10.2 | 4.79 | 11.8 | 10.0 | 5.32 | 11.0 | 9.6 | 5.83 |
| | 19.5 | 27.0 | 14.1 | 11.2 | 3.87 | 13.8 | 10.7 | 4.08 | 13.1 | 10.4 | 4.49 | 12.7 | 10.3 | 4.81 | 12.0 | 10.0 | 5.33 | 11.2 | 9.8 | 5.85 |
| | 22.0 | 30.0 | 15.4 | 11.3 | 3.95 | 14.9 | 11.0 | 4.16 | 14.0 | 10.6 | 4.58 | 13.7 | 10.5 | 4.90 | 13.2 | 10.3 | 5.44 | 12.2 | 9.8 | 5.97 |
| | 24.0 | 32.0 | 16.2 | 11.4 | 3.98 | 15.8 | 11.1 | 4.20 | 14.9 | 10.7 | 4.62 | 14.6 | 10.6 | 4.95 | 13.9 | 10.4 | 5.49 | 13.1 | 10.1 | 6.02 |

SYMBOLS

FR: Air flow rate [m³/min.]

BF: Bypass factor

EWB: Entering wet bulb temp. [°CWB]

EDB: Entering dry bulb temp. [°CDB]

DB*: Dry bulb temp. [°CDB]

TC: Total capacity cooling [kW]

SHC: Sensible heat capacity [kW]

PI: Power input (Comp. + indoor + outdoor fan motor) [kW]

CAUTION

TC and SHC are given in kW.

V1/V3: 230V [50 Hz]

W1: 400V [50Hz]

NOTES

- Ratings shown are net capacities. Influence on fan motor heat is included.
- shows nominal capacities.
- SHC is based on each EWB and EDB.
SHC* = SHC correction for other dry bulb.
= $0.29 \times 60 \times \text{AFR} [\text{m}^3/\text{min.}] \times (1-\text{BF}) \times (\text{DB}^*-\text{EDB})/860$
Add SHC* to SHC if SHC > TC, then TC = SHC.
- Direct interpolation is permissible. Do not extrapolate.
- Capacities are based on the following conditions.
Corresponding refrigerant piping length: 7.5m
Level difference: 0m
- Air flow rate and BF are tabulated below.

| Model | | FDQ |
|-------|-----|------|
| 125 | AFR | 45 |
| | BF | 0.25 |

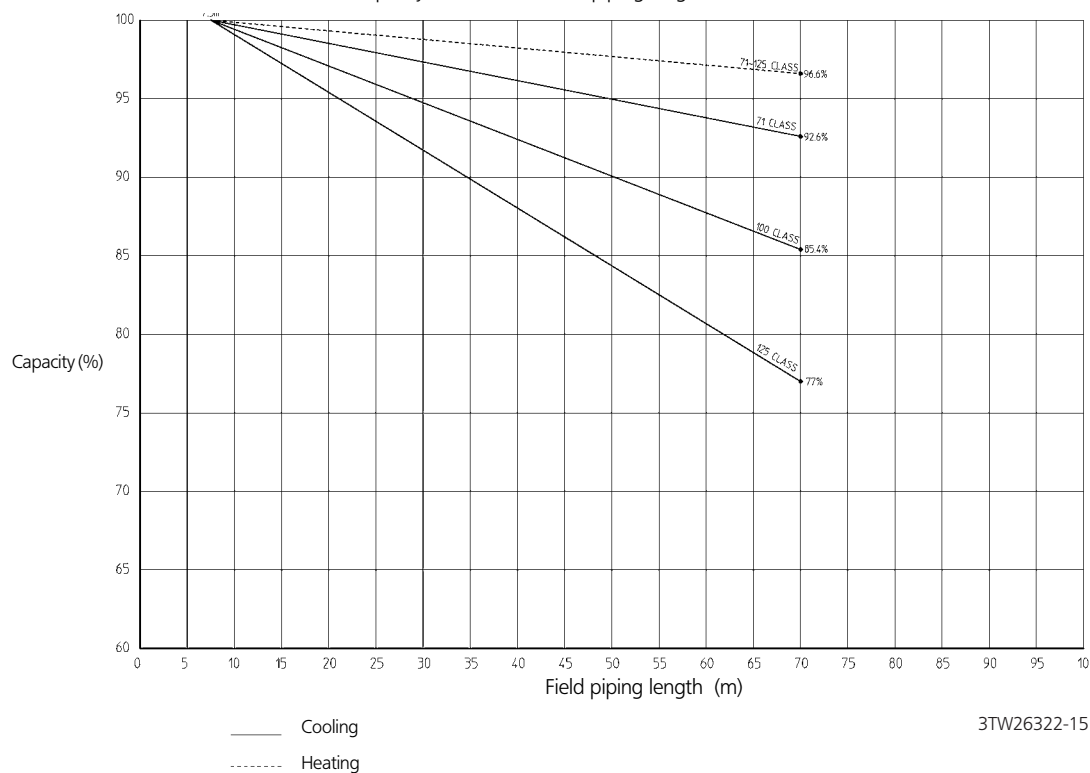
3TW26372-6

6 Capacity tables

6 - 2 Cooling capacity tables

RR/RQ71~125B

Capacity in function of field piping length for non-inverter



6 Capacity tables

6 - 3 Cooling capacity tables simultaneous operation

Simultaneous operation RQ71-100-125B and RR71-100-125B

Cooling capacity

| Outdoor | Indoor | | RQ | | | | | | | | | | | | RR | | | | | | | | | | | |
|---------|-------------|-------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | EWB (°C) | EDB (°C) | Outdoor temperature (°CDB) | | | | | | | | | | | | Outdoor temperature (°CDB) | | | | | | | | | | | |
| | | | 20 | | 25 | | 32 | | 35 | | 40 | | 46 | | 20 | | 25 | | 32 | | 35 | | 40 | | 46 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 71 | 12.0 | 18.0 | 6.2 | 1.80 | 6.1 | 1.95 | 5.7 | 2.19 | 5.5 | 2.34 | 5.3 | 2.58 | 4.9 | 2.81 | 6.2 | 1.80 | 6.1 | 1.95 | 5.7 | 2.19 | 5.5 | 2.34 | 5.3 | 2.58 | 4.9 | 2.81 |
| | 14.0 | 20.0 | 6.6 | 1.83 | 6.5 | 1.99 | 6.0 | 2.23 | 5.9 | 2.38 | 5.5 | 2.62 | 5.3 | 2.86 | 6.6 | 1.83 | 6.5 | 1.99 | 6.0 | 2.23 | 5.9 | 2.38 | 5.5 | 2.62 | 5.3 | 2.86 |
| | 16.0 | 22.0 | 7.2 | 1.86 | 7.0 | 2.02 | 6.5 | 2.26 | 6.3 | 2.43 | 6.0 | 2.67 | 5.5 | 2.91 | 7.2 | 1.86 | 7.0 | 2.02 | 6.5 | 2.26 | 6.3 | 2.43 | 6.0 | 2.67 | 5.5 | 2.91 |
| | 18.0 | 25.0 | 7.7 | 1.91 | 7.5 | 2.07 | 7.2 | 2.32 | 6.8 | 2.48 | 6.4 | 2.73 | 6.0 | 2.98 | 7.7 | 1.91 | 7.5 | 2.07 | 7.2 | 2.32 | 6.8 | 2.48 | 6.4 | 2.73 | 6.0 | 2.98 |
| | 19.0 | 27.0 | 8.0 | 1.92 | 7.7 | 2.09 | 7.3 | 2.34 | 7.1 | 2.51 | 6.6 | 2.76 | 6.2 | 3.01 | 8.0 | 1.92 | 7.7 | 2.09 | 7.3 | 2.34 | 7.1 | 2.51 | 6.6 | 2.76 | 6.2 | 3.01 |
| | 19.5 | 27.0 | 8.0 | 1.93 | 7.9 | 2.10 | 7.4 | 2.35 | 7.2 | 2.52 | 6.7 | 2.77 | 6.3 | 3.02 | 8.0 | 1.93 | 7.9 | 2.10 | 7.4 | 2.35 | 7.2 | 2.52 | 6.7 | 2.77 | 6.3 | 3.02 |
| | 22.0 | 30.0 | 8.7 | 1.97 | 8.5 | 2.14 | 8.0 | 2.40 | 7.9 | 2.57 | 7.4 | 2.83 | 6.8 | 3.08 | 8.7 | 1.97 | 8.5 | 2.14 | 8.0 | 2.40 | 7.9 | 2.57 | 7.4 | 2.83 | 6.8 | 3.08 |
| | 24.0 | 32.0 | 9.4 | 1.99 | 9.1 | 2.16 | 8.6 | 2.42 | 8.4 | 2.59 | 8.0 | 2.85 | 7.4 | 3.11 | 9.4 | 1.99 | 9.1 | 2.16 | 8.6 | 2.42 | 8.4 | 2.59 | 8.0 | 2.85 | 7.4 | 3.11 |
| 100 | 12.0 | 18.0 | 8.4 | 2.53 | 8.3 | 2.80 | 8.1 | 3.16 | 7.8 | 3.34 | 7.5 | 3.70 | 6.8 | 4.15 | 8.4 | 2.53 | 8.3 | 2.80 | 8.1 | 3.16 | 7.8 | 3.34 | 7.5 | 3.70 | 6.8 | 4.15 |
| | 14.0 | 20.0 | 8.9 | 2.57 | 8.8 | 2.85 | 8.7 | 3.22 | 8.4 | 3.40 | 7.8 | 3.77 | 7.4 | 4.23 | 8.9 | 2.57 | 8.8 | 2.85 | 8.7 | 3.22 | 8.4 | 3.40 | 7.8 | 3.77 | 7.4 | 4.23 |
| | 16.0 | 22.0 | 10.1 | 2.62 | 9.8 | 2.90 | 9.1 | 3.27 | 8.9 | 3.46 | 8.5 | 3.83 | 7.7 | 4.30 | 10.1 | 2.62 | 9.8 | 2.90 | 9.1 | 3.27 | 8.9 | 3.46 | 8.5 | 3.83 | 7.7 | 4.30 |
| | 18.0 | 25.0 | 10.8 | 2.68 | 10.5 | 2.97 | 9.8 | 3.35 | 9.6 | 3.54 | 9.0 | 3.93 | 8.3 | 4.41 | 10.8 | 2.68 | 10.5 | 2.97 | 9.8 | 3.35 | 9.6 | 3.54 | 9.0 | 3.93 | 8.3 | 4.41 |
| | 19.0 | 27.0 | 11.1 | 2.71 | 10.8 | 3.00 | 10.1 | 3.39 | 10.0 | 3.58 | 9.4 | 3.97 | 8.6 | 4.45 | 11.1 | 2.71 | 10.8 | 3.00 | 10.1 | 3.39 | 10.0 | 3.58 | 9.4 | 3.97 | 8.6 | 4.45 |
| | 19.5 | 27.0 | 11.2 | 2.72 | 11.0 | 3.01 | 10.3 | 3.40 | 10.1 | 3.59 | 9.5 | 3.98 | 8.7 | 4.47 | 11.2 | 2.72 | 11.0 | 3.01 | 10.3 | 3.40 | 10.1 | 3.59 | 9.5 | 3.98 | 8.7 | 4.47 |
| | 22.0 | 30.0 | 12.2 | 2.77 | 11.8 | 3.07 | 11.2 | 3.47 | 11.0 | 3.66 | 10.4 | 4.06 | 9.5 | 4.55 | 12.2 | 2.77 | 11.8 | 3.07 | 11.2 | 3.47 | 11.0 | 3.66 | 10.4 | 4.06 | 9.5 | 4.55 |
| | 24.0 | 32.0 | 13.0 | 2.80 | 12.7 | 3.10 | 11.9 | 3.50 | 11.6 | 3.70 | 11.1 | 4.10 | 10.2 | 4.60 | 13.0 | 2.80 | 12.7 | 3.10 | 11.9 | 3.50 | 11.6 | 3.70 | 11.1 | 4.10 | 10.2 | 4.60 |
| 125 | 12.0 | 18.0 | 11.1 | 3.37 | 10.8 | 3.55 | 10.0 | 3.91 | 9.7 | 4.18 | 9.2 | 4.64 | 8.5 | 5.09 | 11.1 | 3.37 | 10.8 | 3.55 | 10.0 | 3.91 | 9.7 | 4.18 | 9.2 | 4.64 | 8.5 | 5.09 |
| | 14.0 | 20.0 | 11.8 | 3.43 | 11.4 | 3.61 | 10.7 | 3.98 | 10.4 | 4.26 | 9.8 | 4.72 | 9.1 | 5.18 | 11.8 | 3.43 | 11.4 | 3.61 | 10.7 | 3.98 | 10.4 | 4.26 | 9.8 | 4.72 | 9.1 | 5.18 |
| | 16.0 | 22.0 | 12.7 | 3.49 | 12.1 | 3.68 | 11.4 | 4.05 | 11.1 | 4.33 | 10.4 | 4.81 | 9.6 | 5.27 | 12.7 | 3.49 | 12.1 | 3.68 | 11.4 | 4.05 | 11.1 | 4.33 | 10.4 | 4.81 | 9.6 | 5.27 |
| | 18.0 | 25.0 | 13.3 | 3.57 | 13.0 | 3.76 | 12.1 | 4.14 | 11.8 | 4.44 | 11.2 | 4.92 | 10.3 | 5.40 | 13.3 | 3.57 | 13.0 | 3.76 | 12.1 | 4.14 | 11.8 | 4.44 | 11.2 | 4.92 | 10.3 | 5.40 |
| | 19.0 | 27.0 | 13.6 | 3.61 | 13.3 | 3.80 | 12.7 | 4.19 | 12.2 | 4.48 | 11.5 | 4.97 | 10.7 | 5.45 | 13.6 | 3.61 | 13.3 | 3.80 | 12.7 | 4.19 | 12.2 | 4.48 | 11.5 | 4.97 | 10.7 | 5.45 |
| | 19.5 | 27.0 | 13.8 | 3.62 | 13.5 | 3.81 | 12.8 | 4.20 | 12.4 | 4.49 | 11.7 | 4.99 | 10.9 | 5.47 | 13.8 | 3.62 | 13.5 | 3.81 | 12.8 | 4.20 | 12.4 | 4.49 | 11.7 | 4.99 | 10.9 | 5.47 |
| | 22.0 | 30.0 | 15.1 | 3.69 | 14.6 | 3.89 | 13.7 | 4.28 | 13.4 | 4.58 | 12.9 | 5.09 | 11.9 | 5.58 | 15.1 | 3.69 | 14.6 | 3.89 | 13.7 | 4.28 | 13.4 | 4.58 | 12.9 | 5.09 | 11.9 | 5.58 |
| | 24.0 | 32.0 | 15.9 | 3.73 | 15.5 | 3.93 | 14.6 | 4.32 | 14.3 | 4.63 | 13.6 | 5.14 | 12.8 | 5.63 | 15.9 | 3.73 | 15.5 | 3.93 | 14.6 | 4.32 | 14.3 | 4.63 | 13.6 | 5.14 | 12.8 | 5.63 |

6

SYMBOLS

EWB: Entering wet bulb temp. [°CWB]

EDB: Entering dry bulb temp. [°CDB]

TC: Total capacity heating [kW]

PI o: Power input of outdoor unit [kW]

PI corr1: Correction factor for PI depending on voltage of outdoor [kW]

PI corr2: Correction factor for PI depending used indoor units [kW]

PI: Total power input [kW]

$$PI = PI_o + PI_{corr1} + \sum PI_{corr2}$$

e.g. RQ100B7V3B + FBQ71B7V3B + FHQ35B7V1B

$$PI = 3.58 + 0.27 + 0.21 + 0.14 = 4.2 \text{ kW}$$

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat.
- shows nominal capacities.
- Capacities are based on the following conditions.
Corresponding refrigerant piping length: 7.5m
Level difference: 0m
- Direct interpolation is permissible. Do not extrapolate.
- Add the following correction to the power input for the different outdoor units (PI corr1).

| Outdoor model | Power supply | |
|---------------|--------------|----|
| | V3 | W1 |
| RQ71 | 0.12 | 0 |
| RQ100 | 0.27 | 0 |
| RR71 | 0.12 | 0 |
| RR100 | 0.27 | 0 |

- Add the following correction to the power input for each connected indoor unit (PI corr2).

| Indoor model | Indoor types | | | | | |
|--------------|--------------|------|------|------|-------|------|
| | FBQ | FHQ | FFQ | FCQ | FAQ | FUQ |
| 35 | 0.12 | 0.14 | 0.08 | 0.14 | - | - |
| 50 | 0.16 | 0.14 | 0.09 | 0.14 | - | - |
| 60 | 0.21 | 0.14 | 0.11 | 0.16 | - | - |
| 71 | 0.21 | 0.14 | - | 0.16 | 0.069 | 0.16 |

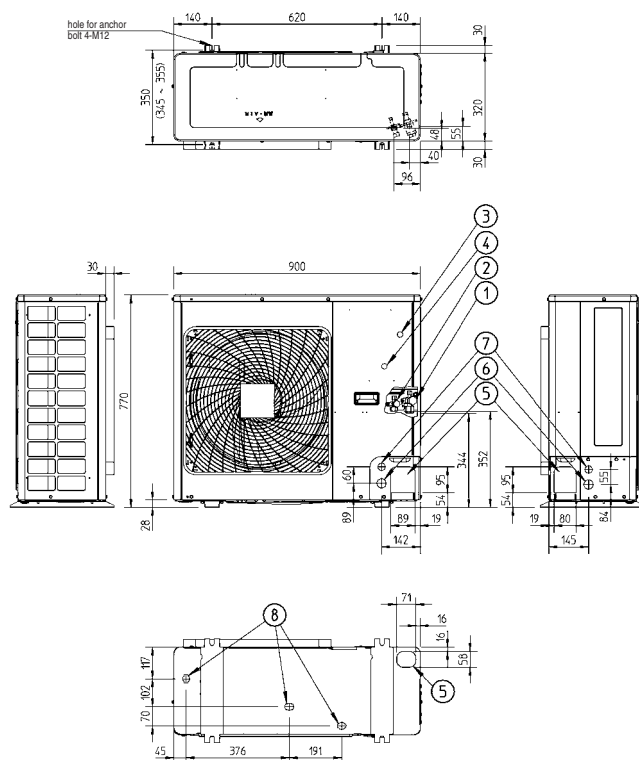
- The total capacity does not change with different combination of indoor units.

3TW26322-13

7 Dimensional drawing & centre of gravity

7 - 1 Dimensional drawing

RR71B

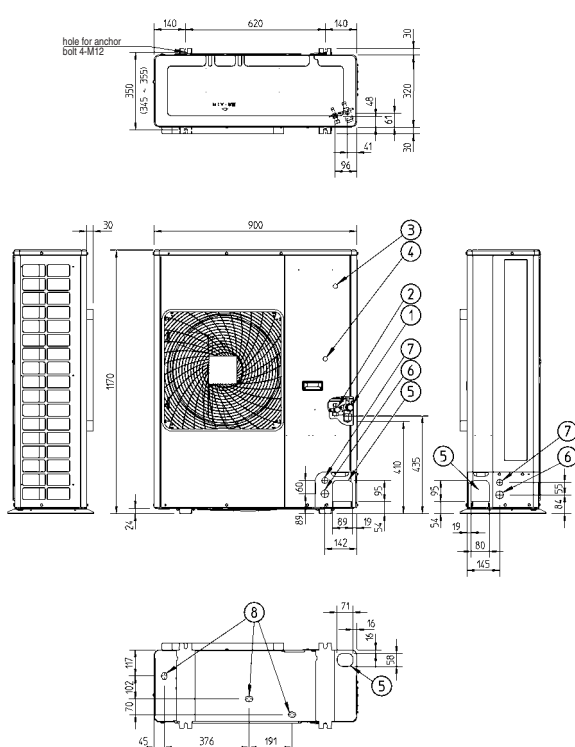


LEGEND

- 1 Gas pipe connection $\phi 15.9$ flare
- 2 Liquid pipe connection $\phi 9.5$ flare
- 3 Service port (in the unit)
- 4 Grounding terminal M5 (in switch box)
- 5 Refrigerant piping intake
- 6 Power supply wiring intake (knock out hole $\phi 34$)
- 7 Control wiring intake (knock out hole $\phi 27$)
- 8 Drain outlet

3TW26374-1

RR100B



LEGEND

- 1 Gas pipe connection $\phi 15.9$ flare
- 2 Liquid pipe connection $\phi 9.5$ flare
- 3 Service port (in the unit)
- 4 Grounding terminal M5 (in switch box)
- 5 Refrigerant piping intake
- 6 Power supply wiring intake (knock out hole $\phi 34$)
- 7 Control wiring intake (knock out hole $\phi 27$)
- 8 Drain outlet

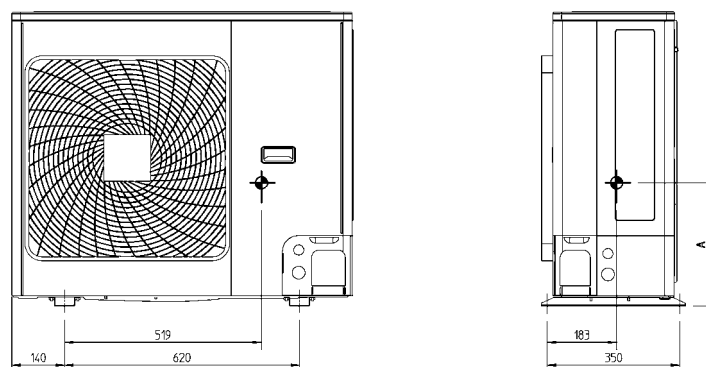
3TW26394-1

7 Dimensional drawing & centre of gravity

7 - 2 Centre of gravity

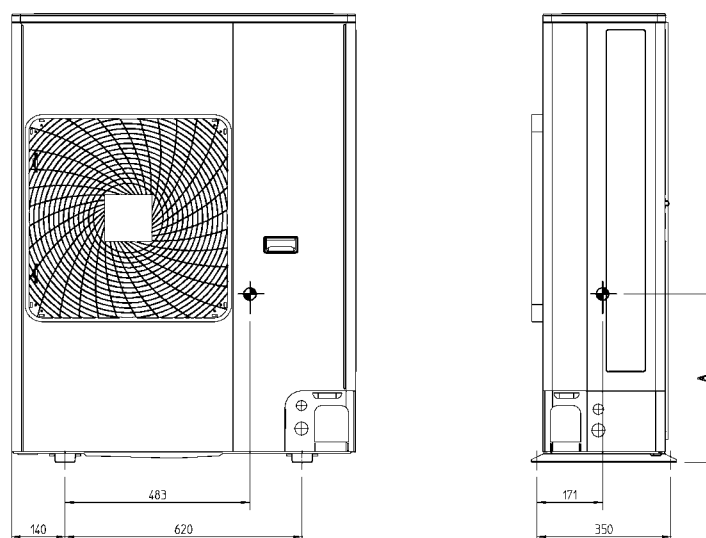
7

R(Q)(R)71B



3TW26329-5B

R(Q)(R)100B

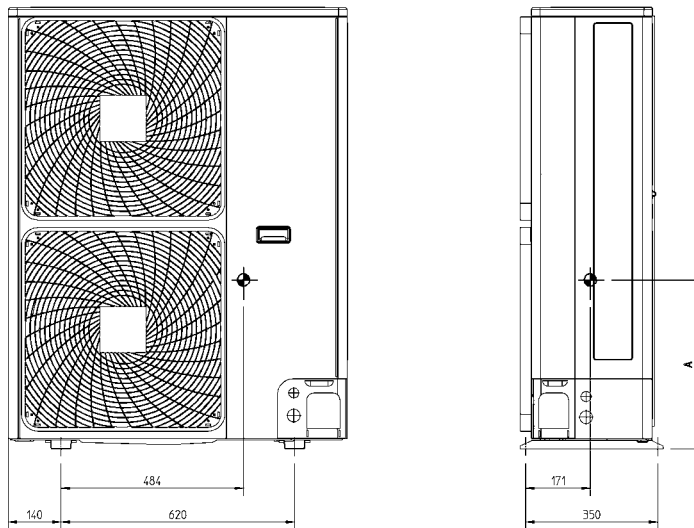


3TW26349-5B

7 Dimensional drawing & centre of gravity

7 - 2 Centre of gravity

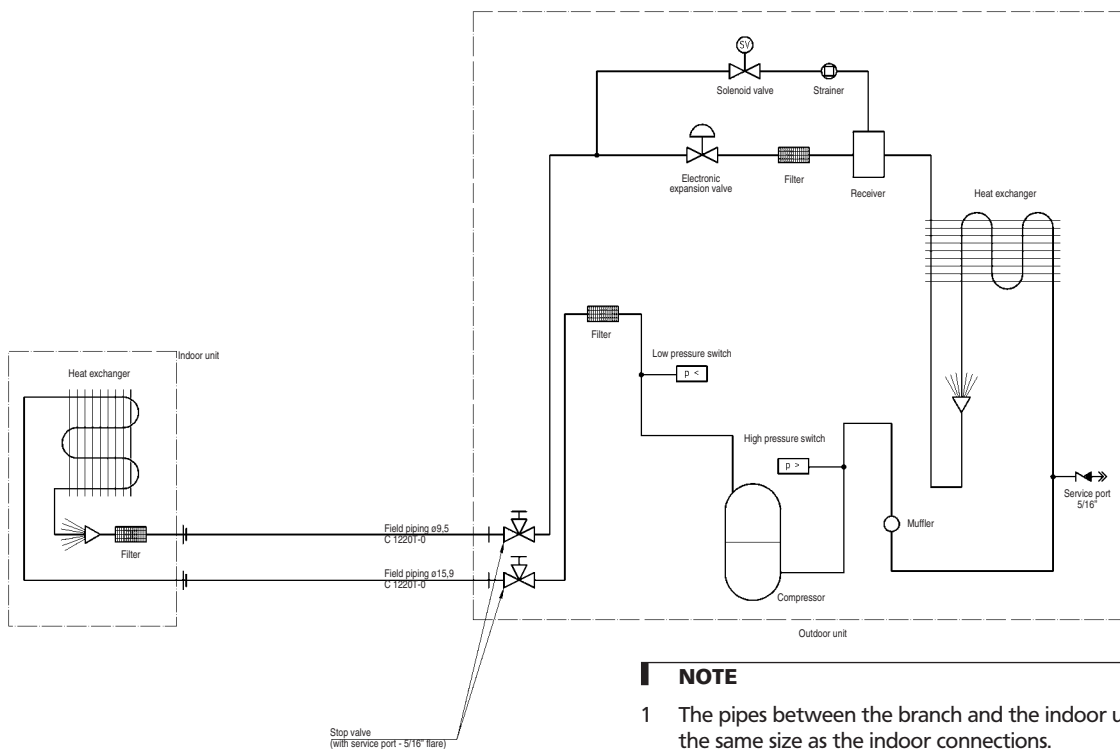
R(Q)(R)125B



3TW26369-5B

8 Piping diagram

RR71-125B (pair)



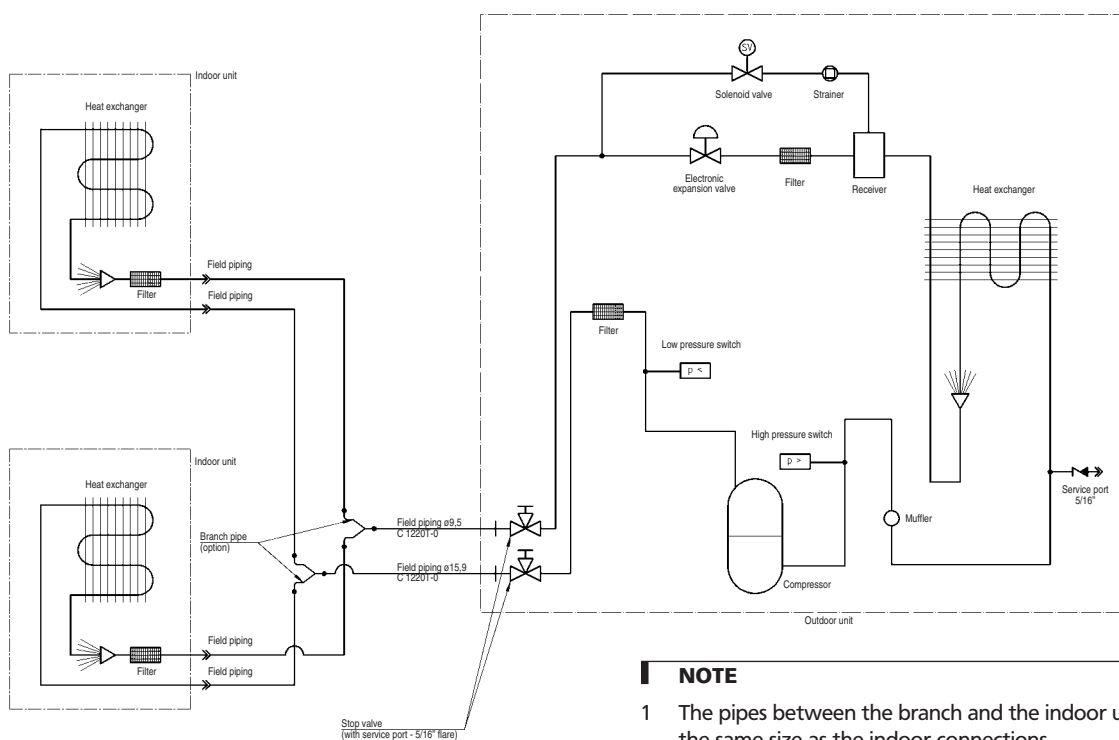
NOTE

- The pipes between the branch and the indoor units should have the same size as the indoor connections.

Check valve
 Flexible connection
 Flare connection
 Screw connection
 Flange connection
 Pinched pipe
 Spinned pipe

3TW26375-1

RR71-125B (twin)



NOTE

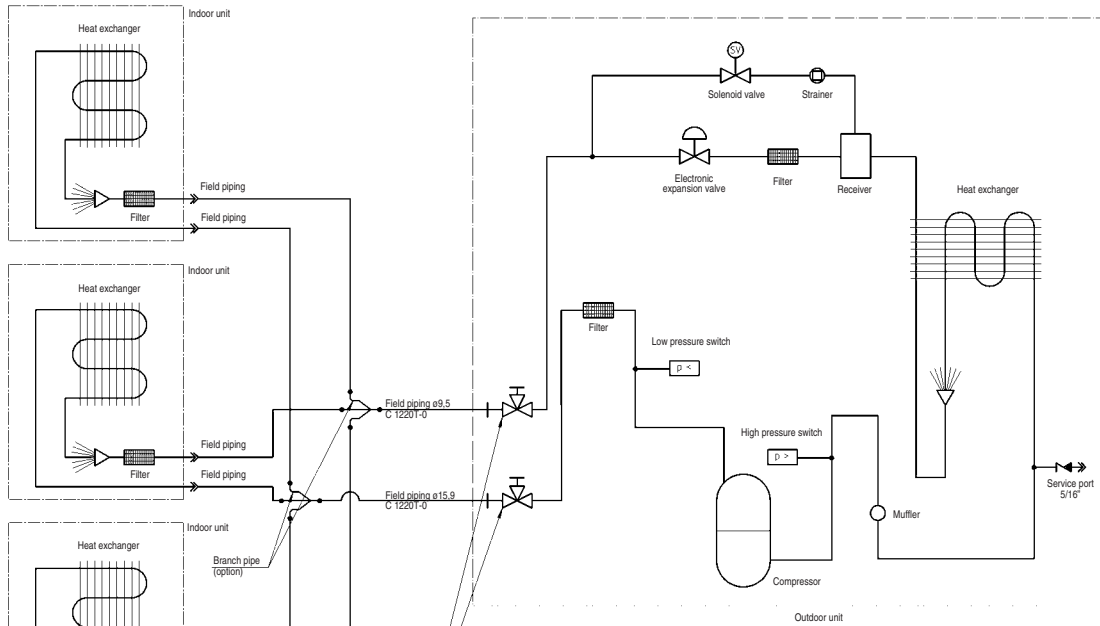
- The pipes between the branch and the indoor units should have the same size as the indoor connections.

Check valve
 Flexible connection
 Flare connection
 Screw connection
 Flange connection
 Pinched pipe
 Spinned pipe

3TW26375-2

8 Piping diagram

RR100-125B (triple)



NOTE

- 1 The pipes between the branch and the indoor units should have the same size as the indoor connections.

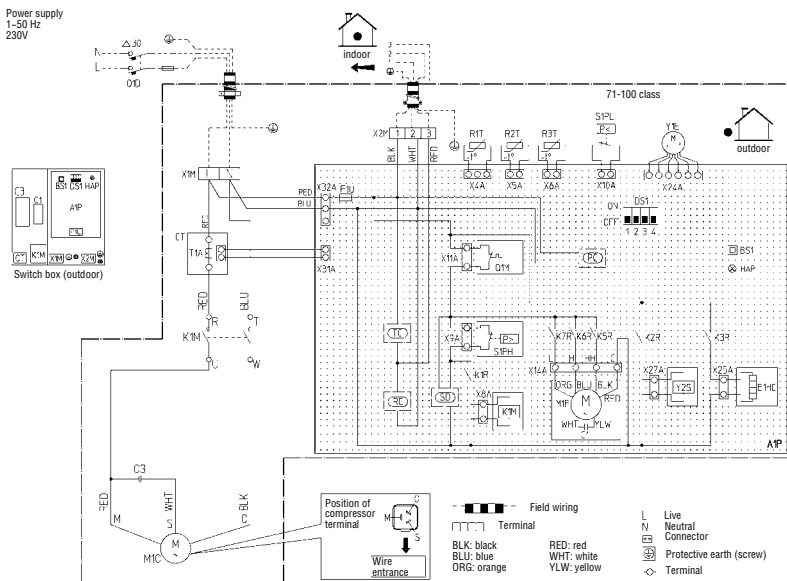
Check valve
 Flexible connection
 Flare connection
 Screw connection
 Flange connection
 Pinched pipe
 Spinned pipe

3TW26395-3

9 Wiring diagram

9 - 1 Wiring diagram

RR71-100BV3



NOTE

- 1 Confirm the method of setting the dip switch (DS1) by service manual. When the unit is shipped by factory all switches are set to be off.

LEGEND

| | |
|------|---|
| A1P | Printed circuit board |
| BS1 | Push button switch (forced defrost-pump down) |
| C1 | Capacitor (M1F) |
| C3 | Capacitor (M1C) |
| DS1 | Dip switch |
| E1HC | Crankcase heater |

| | |
|-----------|--|
| F1U | Fuse (T6.3/250V) |
| HAP | Light emitting diode (service monitor green) |
| K1M | Magnetic contactor (M1C) |
| K1R | Magnetic relay (K1M) |
| K2R | Magnetic relay (Y2S) |
| K3R | Magnetic relay (E1HC) |
| K4R | Magnetic relay (Y1S) |
| K5R, K6R, | |

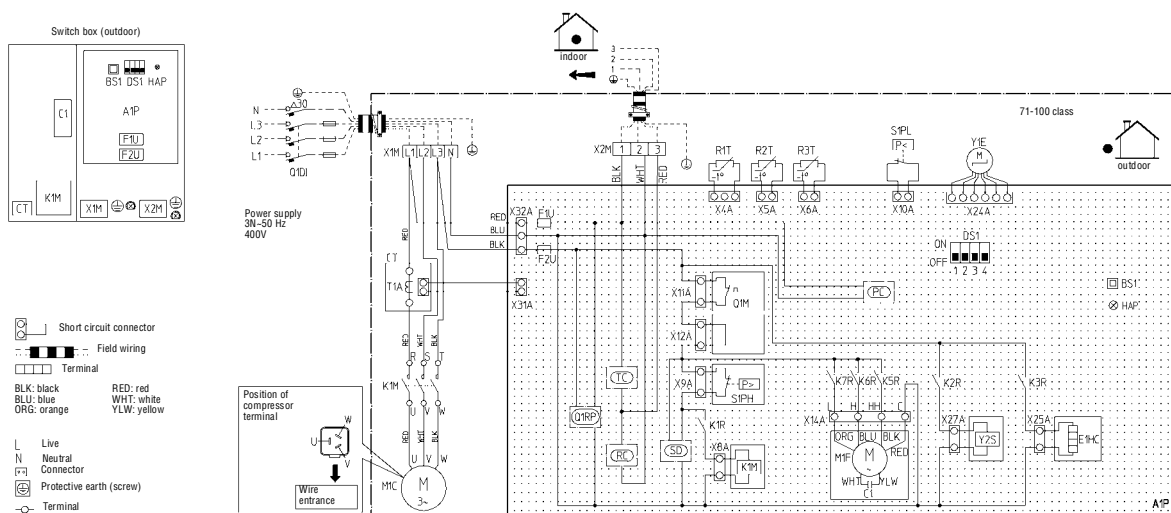
| | |
|------|-------------------------------|
| K7R | Magnetic relay (M1F) |
| M1C | Motor compressor |
| M1F | Motor fan |
| PC | Power circuit |
| Q1DI | Earth leakage breaker (30 mA) |
| Q1M | Thermo switch (M1F) |
| R1T | Thermistor (Air) |
| R2T | Thermistor (Coil) |
| R3T | Thermistor (Discharge) |

| | |
|----------|-----------------------------|
| RC | pipe |
| S1PH | Signal receiver circuit |
| S1PL | Pressure switch (high) |
| SD | Pressure switch (low) |
| T1A | Safety devices input |
| TC | Current transformer |
| X1M, X2M | Signal transmission circuit |
| Y1E | Terminal strip |
| | Expansion valve |

| | |
|-----|--------------------------|
| Y1S | (electronic) 4-way valve |
| Y2S | Solenoid valve |
| CT | Current transformer |

2TW26376-1B

RR71-100BW1



LEGEND

| | |
|----------|---|
| A1P | Printed circuit board |
| BS1 | Push button switch (forced defrost-pump down) |
| C1 | Capacitor (M1F) |
| DS1 | Dip switch |
| E1HC | Crankcase heater |
| F1U, F2U | Fuse (T6.3/250V) |
| HAP | Light emitting diode (service monitor green) |

| | |
|-----------|-------------------------------|
| K1M | Magnetic contactor (M1C) |
| K1R | Magnetic relay (K1M) |
| K2R | Magnetic relay (Y2S) |
| K3R | Magnetic relay (E1HC) |
| K5R, K6R, | |
| K7R | Magnetic relay (M1F) |
| M1C | Motor compressor |
| M1F | Motor fan |
| PC | Power circuit |
| Q1DI | Earth leakage breaker (30 mA) |

| | |
|------|-----------------------------|
| Q1M | Thermo switch (M1F) |
| R1T | Phase reverse circuit |
| R2T | Thermistor (Air) |
| R3T | Thermistor (Coil) |
| RC | Thermistor (Discharge pipe) |
| S1PH | Signal receiver circuit |
| S1PL | Pressure switch (high) |
| SD | Pressure switch (low) |
| T1A | Safety devices input |
| TC | Current transformer |

| | |
|----------|-----------------------------|
| X1M, X2M | Signal transmission circuit |
| Y1E | Terminal strip |
| Y1S | Expansion valve |
| Y2S | (electronic) 4-way valve |
| CT | Solenoid valve |
| | Current transformer |

NOTE

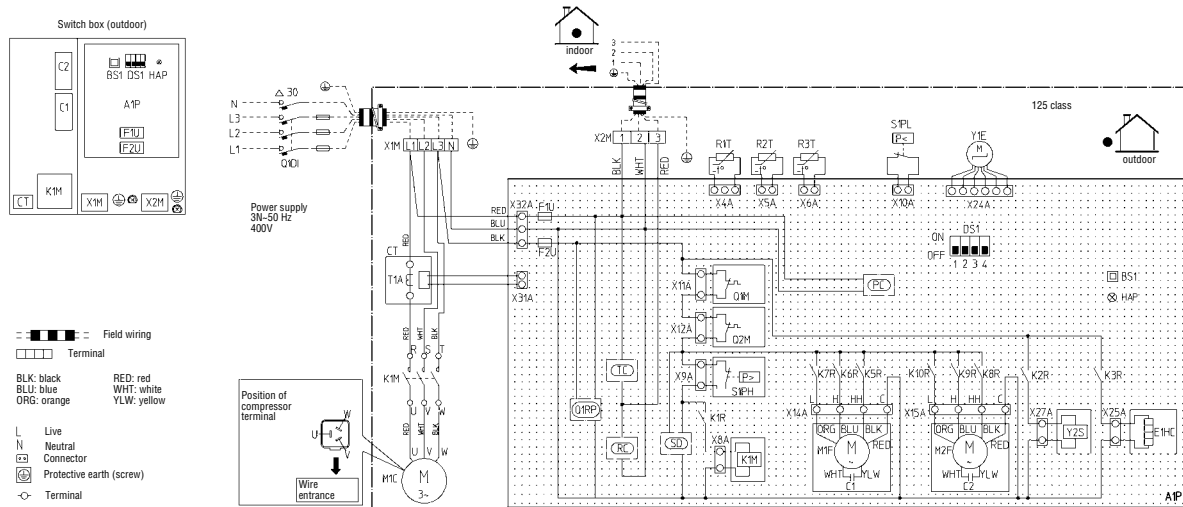
- 1 Confirm the method of setting the dip switch (DS1) by service manual. When the unit is shipped by factory all switches are set to be off.

2TW26386-1B

9 Wiring diagram

9 - 1 Wiring diagram

RR125BW1



9

LEGEND

| | |
|----------|---|
| A1P | Printed circuit board |
| BS1 | Push button switch (forced defrost-pump down) |
| C1 | Capacitor (M1F) |
| C2 | Capacitor (M2F) |
| DS1 | Dip switch |
| E1HC | Crankcase heater |
| F1U, F2U | Fuse (T6.3/250V) |
| HAP | Light emitting diode |

| | |
|-----------|--|
| K1M | (service monitor green) Magnetic contactor (M1C) |
| K1R | Magnetic relay (K1M) |
| K2R | Magnetic relay (Y2S) |
| K3R | Magnetic relay (E1HC) |
| K4R | Magnetic relay (Y1S) |
| K5R, K6R, | |
| K7R | Magnetic relay (M1F) |
| K8R, K9R, | |
| K10R | Magnetic relay (M2F) |
| M1C | Motor compressor |

| | |
|----------|-------------------------------|
| M1F, M2F | Motor fan |
| PC | Power circuit |
| Q1DI | Earth leakage breaker (30 mA) |
| Q1M | Thermo switch (M1F) |
| Q1RP | Phase reverse circuit |
| R1T | Thermistor (Air) |
| R2T | Thermistor (Coil) |
| R3T | Thermistor (Discharge pipe) |
| RC | Signal receiver circuit |
| S1PH | Pressure switch (high) |

| | |
|----------|------------------------------|
| S1PL | Pressure switch (low) |
| SD | Safety devices input |
| T1A | Current transformer |
| TC | Signal transmission circuit |
| X1M, X2M | Terminal strip |
| Y1E | Expansion valve (electronic) |
| Y1S | 4-way valve |
| Y2S | Solenoid valve |
| CT | Current transformer |

NOTE

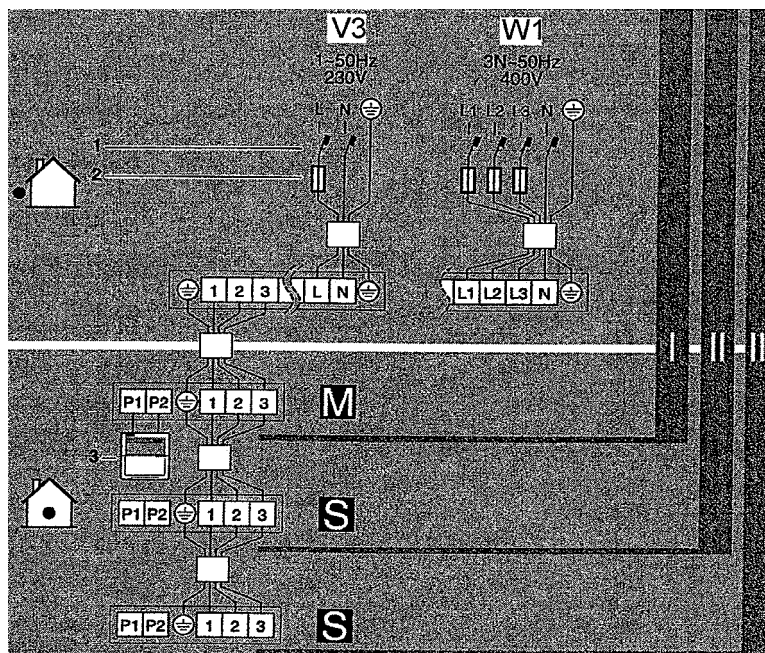
- Confirm the method of setting the dip switch (DS1) by service manual. When the unit is shipped by factory all switches are set to be off.

2TW26416-1B

9 Wiring diagram

9 - 2 External connection diagram

R(Q)(R)71-125B



I Pair
II Twin
III Triple
M Master

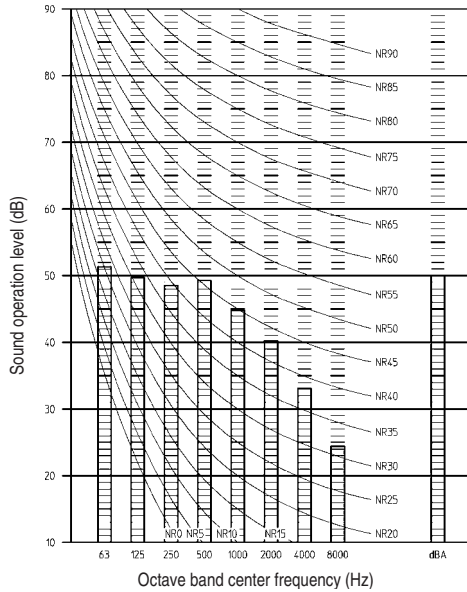
S Slave
1 Earth leak detector
2 Fuse
3 Remote controller

4TW26329-7

10 Sound data

10 - 1 Sound pressure spectrum

RR/RQ71B Cooling



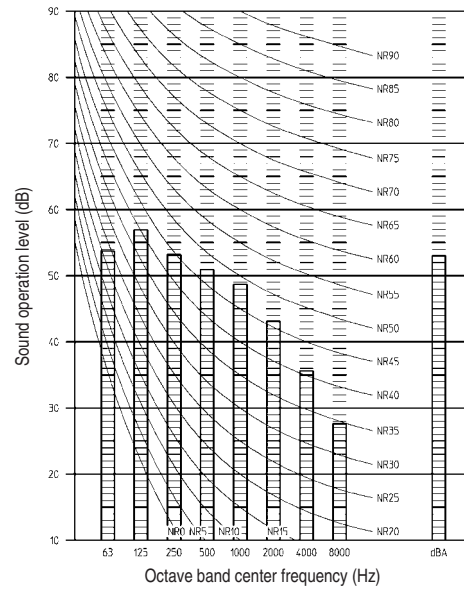
NOTES

- 1 Data is valid at free field condition.
- 2 Data is valid at nominal operation condition.
- 3 dBA = A-weighted sound operation level (A-scale according to IEC)
- 4 Reference acoustic pressure 0dB = 20μPa.
- 5 Curve for RQ71B and RR71B in cooling mode.

Measuring location
(discharge side)

3TW26327-1

RR/RQ100B Cooling



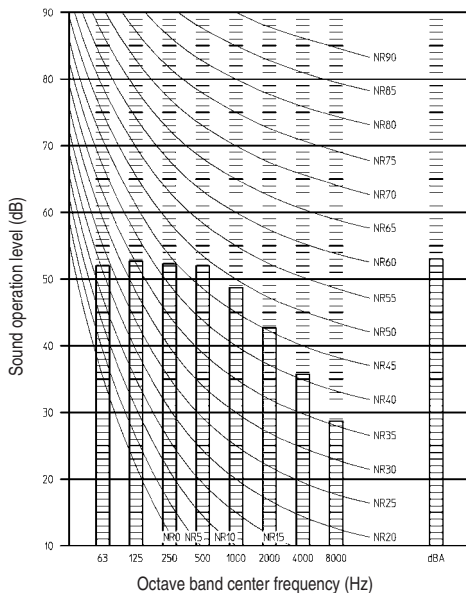
NOTES

- 1 Data is valid at free field condition.
- 2 Data is valid at nominal operation condition.
- 3 dBA = A-weighted sound operation level (A-scale according to IEC)
- 4 Reference acoustic pressure 0dB = 20μPa.
- 5 Curve for RQ100B and RR100B in cooling mode.

Measuring location
(discharge side)

3TW26347-1

RR/RQ125B Cooling



NOTES

- 1 Data is valid at free field condition.
- 2 Data is valid at nominal operation condition.
- 3 dBA = A-weighted sound operation level (A-scale according to IEC)
- 4 Reference acoustic pressure 0dB = 20μPa.
- 5 Curve for RQ125B and RR125B in cooling mode.

Measuring location
(discharge side)

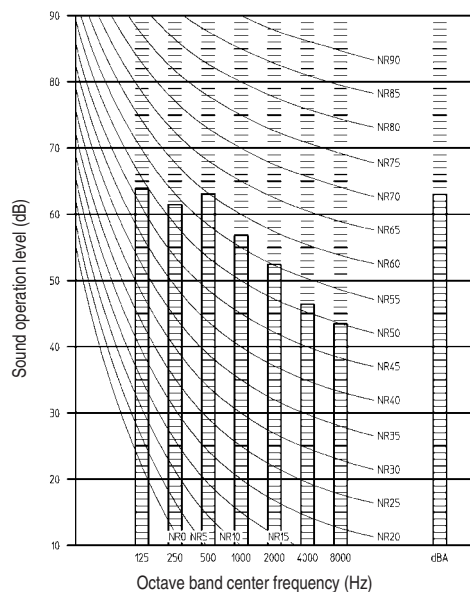
3TW26367-1

10 Sound data

10 - 2 Sound power spectrum

10

RR/RQ71B Cooling

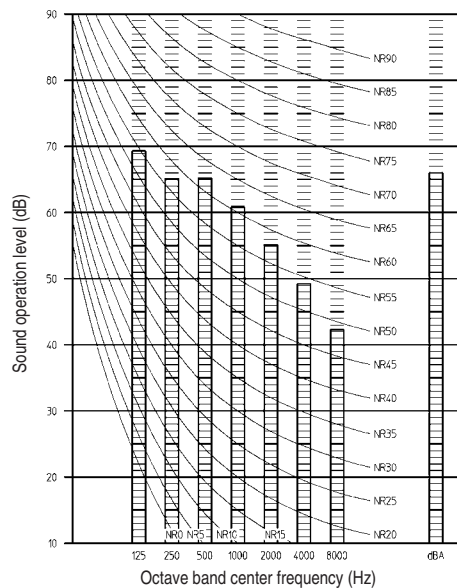


NOTE

- 1 Data is valid at free field condition.
- 2 Data is valid at nominal operation condition.
- 3 dBA = A-weighted sound operation level (A-scale according to IEC)
- 4 Reference acoustic pressure 0dB = 20μPa.
- 5 Curve for RQ100B and RR100B in cooling mode.

3TW26327-3

RR/RQ100B Cooling

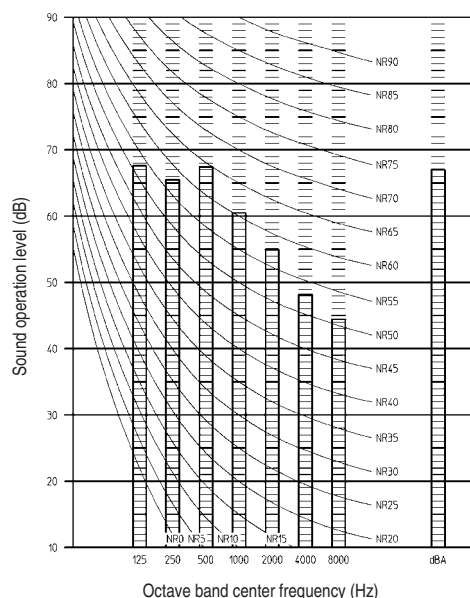


NOTE

- 1 Data is valid at free field condition.
- 2 Data is valid at nominal operation condition.
- 3 dBA = A-weighted sound operation level (A-scale according to IEC)
- 4 Reference acoustic pressure 0dB = 20μPa.
- 5 Curve for RQ100B and RR100B in cooling mode.

3TW26347-3

RR/RQ125B Cooling



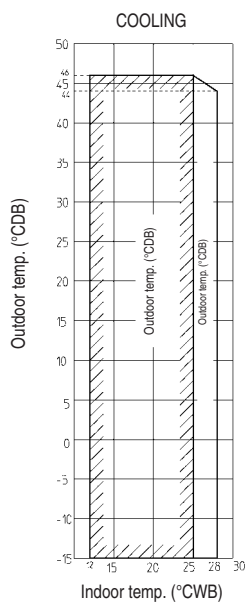
NOTE

- 1 Data is valid at free field condition.
- 2 Data is valid at nominal operation condition.
- 3 dBA = A-weighted sound operation level (A-scale according to IEC)
- 4 Reference acoustic pressure 0dB = 20μPa.
- 5 Curve for RQ125B and RR125B in cooling mode.

3TW26367-3

11 Operation range

RR71-125B



NOTES

- 1 Model names:
RR71BV3
RR71BW1
RR100BV3
RR100BW1
RR125BW1
- 2 Depending on operation and installation conditions, the indoor unit can change over to freeze-up operation (indoor de-icing).
- 3 To reduce the freeze-up operation (indoor de-icing) frequency it is recommended to install the outdoor unit in a location not exposed to wind.

3TW26373-1